OBJECTIVES (MCQ'S) OF CHAPTER-1 IN ALL PUNJAB BOARDS 2011-2021

1. A collection of raw facts and figures is called:	(3 Times)
(A) data (B) information (C) processing	(D)object
2. Which of the following may be a temporary file?	(2 Times)
(A) master file (B) transaction file (C) backup file 3. SQL stands for:	
3. SQL stands for:	(4 Times)
(A) structure query language (B) sort query language (C) self query language (D) seek query la	nguage
4. A database consists of various components called:	nguage
(A) properties (B) tool (C) object	(D) entities
5. Which one of the following type of file requires large	est processing time?
	(3 Times)
(A) Sequential file (B)Random file (C) indexed Sequential file	ile (D) Direct Access file
Which represent a collection of concepts that are used	d to describe the
structure of a database?	(2 Times)
(A) data ware house (B) database model (C) data structure	(D) data type
7. A relation that contains minimal redundancy and allow	w easy use is called:
(A) close (B) record (C) field	(2 Times)
(A) clean (B) record (C) field 8. Each set of related items in a table is called:	(D) well structured
(A) Table (B) Record (C) field	(D) query
9. The manipulated and processed data is:	(D) query
(A) Object (B) Data (C) Figure	(D) information
10. Which of the following data model is more flexible:	(2 Times)
(A) NETWORK model (B) Hierarchical model (C) Relational model	odel (D) Object data model
11. Data that causes inconsistency lacks:	(2 Times)
(A) Good data (B) Data Integrity (C) Data redundar	ncv (D) Data anomaly
12. Which of the following is not a database object?	(2), 2 and anomaly
(A) table (B) query (C) form	(D) MS-Word
13. Manipulation of data to achieve the required objective	es and results is called:
(A) Data processing (B) Operation (C) a and b	(D) None
14. Storage and retrieval of data is related to:	
(A) Data capturing (B) Data Manipulation(C) Managing ou	itput result(D) None
15. All records in a file have the same:	(5)
(A) Contents (B) Structure (C)Both a and b.	(D) None
16. SQL is a(n): (A) Unstructured language (B) Structural language	(3 Times)
(A) Unstructured language (B) Structural language (C) Object oriented language (D) Software	guage
17. The type of files from functional point of view include	•
(A) Program files (B) Data files (C) a and b	(D) None
18. Which of the following is handled by DBMS?	(b) Home
(A) Data integrity (B) Data security (C) Data independ	ence (D) All
19. Database application contains procedure for:	. *
(A) Adding records (B) Deleting records (C) Processing que	eries (D) All
20. Which of the following database model is often referr	ed to as an Inverted Tree?
A) Hierarchical (B) Network (C) Relational	(D)object-oriented
2017	
2017	
21. A set of related records that represent a unit of data is	s (2 times)
(a) file (b) record (c) field	(d) database
22. The column of table corresponds to:	(1 times)
a) table (b) record (c) field	(d) cell
23. A logical grouping of characters is a:	(3 times) (d) Database
a) field (b) record (c) File	(1 times)
24. MS Access save the database with the extension. a) mdba (b) msdb (c) ppt	(d) .mdb
a) .mdbq (b) .msdb (c) .ppt 25. A collection of related fields is:-	, , , , , , , , , , , , , , , , , , , ,
a) Character (b) File (c) Record	(d) Database
THE PRINCIPAL TO THE PR	the state of the s

Duplicate data in multiple data files is called: 26. (c) program dependency (d) data redundancy (a) data integrity (b) data consistency Each separate piece of information stored in a record is called: 27. (a) form (b) field (c) table (d) relation Which file is used to store information that remains constant for a long time: 28. (a) data file (b) master file (c) transaction file (d) backup file A set of related files created and managed by a (DMBS) is called: 29. (a) Field (b) Record (c) Database (d) Module Multiple copies of the same data is referred to as: 30. (b) data inconsistency (c) data redundancy (d) data isolation (a) data integrity 2011 31.

Which of the following is also known as data set:

(a) record (b) field (c) file 32.

a type of file that contains data is called: (a) data flies

(b)Program file (c) image file

No. of Street, Street, or Street, Stre	distribution of the same	No. of the Contract of the Con		Ar	VSWE	RS				-
1	2	3	4	5	6	7	8	9	10	11
A	В	A	С	Α	В	D	В	D	C	В
12	13	14	15	16	17	18	19	20	21	22
U	C	C	В	В	C	D	D	A	A	C
23	2.4	25	26	27	28	29	30	31	32	
A	D	C	D	В	В	C	С	C	Α	

(d) module

SHORT QUESTIONS OF CHAPTER-1 IN ALL PUNJAB BOARDS 2011-2021

What is meant by Transaction File?

A type of file that is used to store input data before processing is called transaction Ans: file. It may be temporary file and may exist until the master file is updated. It m also be used to maintain a permanent record of the data about a transaction.

2. What is meant by Data Independence?

(2 Times) Data independence means that data and application programs are separate from ea Purs: other. The user can change data storage structures and operations without change the application programs and can also modify programs without reorganization data. The user can also modify programs without reorganization of data.

.What do you mean by Data Integrity? 3. (4 Times)

Data integrity means the correctness and consistency of data. It is another for Ans: of database protection. Integrity is related to quality of data. It is maintained wi the help of integrity constraints.

What is meant by Database? (2 Times)

A database is a collection of logically related data sets or files. Each file m Ans: contain different type of information and are used for specific purposes. The fil may be organized in different ways to meet different processing and retries requirements of the users.

Differentiate between Data and Information. (2 Times)

Data is a set of raw facts and figures information is the processed form of dat Data is used as input in the computer and information is the output of the computer. Data is meaningless and information is meaningful.

Data → processing → information What is data processing?

Ans: The process of manipulating data to achieve the required objectives and results called data processing. The software (program) is used to process rav. data. The software converts raw data into meaningful information.

7. Enlist different types of database models. (2 Times) Ans: The different types of database models are as follow:

 Hierarchical model ii. Network model-Relational model 8. What is the concept of Consistency constraints? Ans:

Consistency means accuracy of data. Constraints are rules or requirements that implements in database management system. Consistency constraints are the rules that must be followed to enter data in the database. If a data does not fulfill

these constraints, it cannot enters to the database.

9. What is file?

A collection of related records treated as single unit is called a file. Files are stored Ans: in secondary storage devices like disk, CD-ROM or DVD ROM. A student file may obtain the records of thousands of students. Earth student record consists of same field but each field have different data.

Write two advantages of DBMS. 10. Some advantages of DBMS are; Ans:

i. Data independence:

DBMS provides the facility of data independence. It means that the data and application programs are separate from each other. The user can change data storage structures and operations without changing the application programs. The user can also modify programs without reorganization of data.

li. Data security:

DBMS provides the data security. It is the protection of the database from unauthorized access. DBMS provides several procedures to maintain the data security.

11. Define the term-redundancy.

Redundancy is a system design in which a component is duplicated so if it fails Ans: there will be a backup. It has a negative can notation when the duplication is unnecessary or is simply the result of poor planning.

12. What is Backup file?

A type of file that is used to take backup important data is called backup file. If Ans: data is lost it can be recovered from backup file. Special programs are used to create, and use backup files.

13. Name different types of file organization.

Ans: Types of file organization are as follows:

Sequential file organization.

ii) Heap file organization.

111) Hash file organization. iv) B+ file organization.

Indexed sequential access method (ISAM). y)

vi) Cluster file organization.

State the use of query language. (3 Times) 14.

SQL (Structure Query Language) is used for creating table structures, entering Ans: data into them and retrieving/updating the selected records, based on the particular criteria and format indicated, within the databases.

State the use of index in FIMS. 15.

(2 Times) Index are used to maintain the data in order. The order can be ascending or Ans: descending. Index is a value in fact which is known as key value. On the basis of that key value, order of data is maintained. On the basis of that index, data is retrieved and inserted.

Why File Organization is important in a database Design? Give two reasons. (2 Times) 16.

What do you mean by File organization? OR

The technique for physically arranging the data on secondary storage like hard disk Ans: etc is called file organization. It is necessary because it tells the order in which data will be maintained on disk and how it will be represented when it is inserted and retrieved. If a good file organization will be used then data access and insert process will be fast.

17. Define program file.

Ans: A type of file that contains software instructions is called program file. The source program files and executable files are the examples of program files.

18. List file types.

Ans: Program file A STATE OF Data file

19.	What is date distinguis OR use of Data Distinguis (4 Times)	
19.	14th at the distinguist OD use of Data Dictionary	
	What is data dictionary? OR use of Data Dictionary	3
Ans.	Data dictionary is a file that is used to store data definitions that is used. It	,
	structure of data used in database. It may also monitor the data	
	also called repository.	3
20.	Name four database objects iv) Personnel	A
Ans.	i) Data ii) Hardware iii) Software iv) Personnei (3 times)	-
21.		
	Describe term information? Processed data is called information. It is also known as output. It is used to make decisions.	3
Ans.	List any two objectives of DBMS. (iii) Evolvability (iv) Data integrity	3
22.	A THE STATE OF THE	A
Ans.	i) Shareability ii) Availability (iii) Evolvability (77 (2 times)	~
23.	List two advantages of file indexing? I) Index always refers the exact location on disk. II) It is fast than sequential method.	3
Ans.	II INDEX SIMANS INTELS THE EXACT INCOME.	_
24.	Define data inconsistency? Inconsistency means that two files may contain different data of the same entity. Inconsistency means that two files may contain different data of the same entity. Inconsistency means that two files may contain different data of the same entity. Inconsistency means that two files may contain different data of the same entity.	A
Ans.	Inconsistency means that two files may contain and all files if any change	
	Inconsistency means that two files may contain different data of the line if any change For example, the address of a student must be updated in all files if any change for example, the address of a student must be updated in all files if any change for example, the possible that it is changed in Student file but not in Library file. The	₽,
	Accide it is not stole that it is shown as	3
		P
25.	What is the nurnose of backup and recovery.	
	What is the purpose of backup and recovery? Backup means to store an additional copy of data. The data can be recovered from this file if the original files are mostly created by using specific software utilities.	
Ans.		3
36	Define data? Raw facts and figures is called data. It is unprocessed (i-e collect information of Raw facts and figures form)	F
26.	Dow facts and figures is called data. It is unprocessed (I-e collect in simulation	
Ans.	student from admission form).	
	student from admission form). Any two differences between file processing and database approach? DB approach	
27.	Any two differences between file processing and DB approach	
Ans.	File Processing i) Here data is not duplicated	
	i) in tile processing, udta may	
	duplicated in different mes that provides many	
	anuco data regulação.	4
	II) It is difficult to apply measure	P
	checks on files.	
1	2018	
	2010	4
		,
		F
28.	Define data file. Define data file Data files are created by the	. *
28. Ans:		
	A type of file that contains data is called data the butt file with extension .txt.	
Ans:	A type of file that contains data is called data line. But the said state of the software being used. For example Notepad's a type of text file with extension .txt. software being used. For example Notepad's a type of text file with extension .txt. List any two file types from usage point of view. OR Files names from usage	
	A type of file that contains data is called data the Data file with extension txt. software being used. For example Notepad's a type of text file with extension txt. List any two file types from usage point of view. OR Files names from usage (2 times)	
Ans: 29.	A type of file that contains data is called data life. Data life with extension txt. software being used. For example Notepad's a type of text file with extension txt. List any two file types from usage point of view. OR Files names from usage point of view. (2 times) The types of files from usage point of view are as follows:	
Ans:	A type of file that contains data is called data life. But the software being used. For example Notepad's a type of text file with extension txt. Software being used. For example Notepad's a type of text file with extension txt. Software being used. For example Notepad's a type of text file with extension txt. Software being used. For example Notepad's a type of text file with extension txt. Software being used. For example Notepad's a type of text file with extension txt. Software being used. For example Notepad's a type of text file with extension txt. Software being used. For example Notepad's a type of text file with extension txt. Software being used. For example Notepad's a type of text file with extension txt. Software being used. For example Notepad's a type of text file with extension txt. Software being used. For example Notepad's a type of text file with extension txt. Software being used. Software being used	
Ans: 29. Ans.	A type of file that contains data is called data life. But the software being used. For example Notepad's a type of text file with extension txt. Software being used. For example Notepad's a type of text file with extension txt. Software being used. For example Notepad's a type of text file with extension txt. Software being used. For example Notepad's a type of text file with extension txt. Software being used. For example Notepad's a type of text file with extension txt. Software being used. For example Notepad's a type of text file with extension txt. Software being used. For example Notepad's a type of text file with extension txt. Software being used. For example Notepad's a type of text file with extension txt. Software being used. For example Notepad's a type of text file with extension txt. Software being used. For example Notepad's a type of text file with extension txt. Software being used. Software being used	
Ans: 29. Ans. 30.	A type of file that contains data is called data life. But the software being used. For example Notepad's a type of text file with extension txt. List any two file types from usage point of view. OR point of view. The types of files from usage point of view are as follows: Master file II. Transaction File III. Back up File	- 4
Ans: 29. Ans. 30.	A type of file that contains data is called data life. Data software being used. For example Notepad's a type of text file with extension txt. List any two file types from usage point of view. OR point of view. The types of files from usage point of view are as follows: i. Master File ii. Transaction File iii. Back up File Differentiate between Master file and Transaction file. (2 times)	4
Ans: 29.	A type of file that contains data is called data life. Data software being used. For example Notepad's a type of text file with extension txt. List any two file types from usage point of view. OR point of view. The types of files from usage point of view are as follows: i. Master File ii. Transaction File iii. Back up File Differentiate between Master file and Transaction file. (2 times) Master File Transaction File	- 4
Ans: 29. Ans. 30.	A type of file that contains data is called data life. But software being used. For example Notepad's a type of text file with extension txt. List any two file types from usage point of view. OR Files names from usage point of view. The types of files from usage point of view are as follows: i. Master File ii. Transaction File iii. Back up File Differentiate between Master file and Transaction file. (2 times) Master File Transaction File Transaction File The file is used to store the information This type of file stores the input data	4
Ans: 29. Ans. 30.	A type of file that contains data is called data life. But software being used. For example Notepad's a type of text file with extension txt. List any two file types from usage point of view. OR Files names from usage point of view. The types of files from usage point of view are as follows: i. Master File ii. Transaction File iii. Back up File iii. Back up File iii. Back up File iii. Transaction file. Master File Transaction File The file is used to store the information that remains constant for a long period before processing. It may be temporary	4
Ans: 29. Ans. 30.	A type of file that contains data is called data life. But a software being used. For example Notepad's a type of text file with extension txt. List any two file types from usage point of view. OR Files names from usage point of view. The types of files from usage point of view are as follows: i. Master File ii. Transaction File iii. Back up File Differentiate between Master file and Transaction file. (2 times) Master File The file is used to store the information that remains constant for a long period of time. These files are never empty file and may exist until the master file is	4
Ans: 29. Ans. 30.	A type of file that contains data is called data life. But a software being used. For example Notepad's a type of text file with extension txt. List any two file types from usage point of view. OR Files names from usage point of view. The types of files from usage point of view are as follows: i. Master File ii. Transaction File iii. Back up File Differentiate between Master file and Transaction file. (2 times) Master File The file is used to store the information that remains constant for a long period of time. These files are never empty file and may exist until the master file is	4
Ans: 29. Ans. 30.	A type of file that contains data is called data life. But the software being used. For example Notepad's a type of text file with extension text. List any two file types from usage point of view. OR Files names from usage point of view. The types of files from usage point of view are as follows: i. Master File ii. Transaction File iii. Back up File Differentiate between Master file and Transaction file. (2 times) Master File The file is used to store the information that remains constant for a long period of time. These files are never empty since they are created. These files are updated.	4
Ans: 29. Ans. 30.	A type of file that contains data is called data file. But software being used. For example Notepad's a type of text file with extension .txt. List any two file types from usage point of view. OR Files names from usage point of view. The types of files from usage point of view are as follows: i. Master File ii. Transaction File iii. Back up File (2 times) Master File Transaction File The file is used to store the information that remains constant for a long period of time. These files are never empty since they are created. These files are updated when any change in their	4
Ans: 29. Ans. 30. Ans.	A type of file that contains data is called data life. But an action file with extension txt. software being used. For example Notepad's a type of text file with extension txt. List any two file types from usage point of view. OR Files names from usage point of view. The types of files from usage point of view are as follows: i. Master File ii. Transaction File iii. Back up File iii. Back up File iii. Back up File iii. Transaction file. Master File Transaction File The file is used to store the information that remains constant for a long period of time. These files are never empty since they are created. These files are updated when any change in their contents is required.	4
Ans: 29. Ans. 30. Ans.	A type of file that contains data is called data life. But me software being used. For example Notepad's a type of text file with extension .txt. List any two file types from usage point of view. OR Files names from usage point of view. The types of files from usage point of view are as follows: i. Master File ii. Transaction File iii. Back up File (2 times) Master File The file is used to store the information that remains constant for a long period of time. These files are never empty since they are created. These files are updated when any change in their contents is required. List any two problems in traditional file approach.	
Ans: 29. Ans. 30. Ans.	A type of file that contains data is called data like. Software being used. For example Notepad's a type of text file with extension txt. List any two file types from usage point of view. OR Files names from usage point of view. The types of files from usage point of view are as follows: i. Master File ii. Transaction File iii. Back up File Differentiate between Master file and Transaction file. (2 times) Master File The file is used to store the information that remains constant for a long period of time. These files are never empty since they are created. These files are updated when any change in their contents is required. List any two problems in traditional file approach. Data redundancy ii. Data inconsistency	
Ans: 29. Ans. 30. Ans.	A type of file that contains data is called data life. Software being used. For example Notepad's a type of text file with extension txt. List any two file types from usage point of view. OR Files names from usage point of view. The types of files from usage point of view are as follows: i. Master File ii. Transaction File iii. Back up File Differentiate between Master file and Transaction file. (2 times) Master File The file is used to store the information that remains constant for a long period of time. These files are never empty since they are created. These files are updated when any change in their contents is required. List any two problems in traditional file approach. i. Data redundancy ii. Data inconsistency iii. Integrity problems	
Ans: 29. Ans. 30.	A type of file that contains data is called data life. software being used. For example Notepad's a type of text file with extension itxt. List any two file types from usage point of view. The types of files from usage point of view are as follows: i. Master file ii. Transaction file iiii. Back up file (2 times) Master file The file is used to store the information that remains constant for a long period of time. These files are never empty since they are created. These files are updated when any change in their contents is required. List any two problems in traditional file approach. i. Data redundancy ii. Data inconsistency iii. Integrity problems iv. Security problem Define data manipulation.	
Ans: 29. Ans. 30. Ans.	A type of file that contains data is called data life. software being used. For example Notepad's a type of text file with extension itxt. List any two file types from usage point of view. The types of files from usage point of view are as follows: i. Master file ii. Transaction file iiii. Back up file (2 times) Master file The file is used to store the information that remains constant for a long period of time. These files are never empty since they are created. These files are updated when any change in their contents is required. List any two problems in traditional file approach. i. Data redundancy ii. Data inconsistency iii. Integrity problems iv. Security problem Define data manipulation.	
Ans: 29. Ans. 30. Ans.	A type of file that contains data is called data file. Software being used. For example Notepad's a type of text file with extension .txt. List any two file types from usage point of view. OR Files names from usage point of view. The types of files from usage point of view are as follows: i. Master File ii. Transaction File iii. Back up File (2 times) Master File The file is used to store the information that remains constant for a long period of time. These files are never empty since they are created. These files are updated when any change in their contents is required. List any two problems in traditional file approach. i. Data redundancy ii. Data inconsistency iii. Integrity problems iv. Security problem Define data manipulation. The process of applying different operations on data is called data manipulation.	
Ans: 29. Ans. 30. Ans.	A type of file that contains data is called data line. Software being used. For example Notepad's a type of text file with extension .txt. List any two file types from usage point of view. The types of files from usage point of view are as follows: i. Master file ii. Transaction file iii. Back up File Differentiate between Master file and Transaction file. Master file The file is used to store the information that remains constant for a long period of time. These files are never empty since they are created. These files are updated when any change in their contents is required. List any two problems in traditional file approach. i. Data redundancy ii. Data inconsistency iii. Integrity problems iv. Security problem Define data manipulation. The process of applying different operations on data is called data manipulation. It includes the following operations:	11 22 3
Ans: 29. Ans. 30. Ans.	A type of file that contains data is called data line. Software being used. For example Notepad's a type of text file with extension .txt. List any two file types from usage point of view. OR Files names from usage point of view. The types of files from usage point of view are as follows: i. Master file ii. Transaction File iii. Back up File (2 times) Master File Transaction file. Master File Transaction File The file is used to store the information that remains constant for a long period of time. These files are never empty since they are created. These files are updated when any change in their contents is required. List any two problems in traditional file approach. i. Data redundancy ii. Data inconsistency iii. Integrity problems iv. Security problem Define data manipulation. The process of applying different operations on data is called data manipulation. It includes the following operations: a. Classifying b. calculation c. sorting d. summarizing	11 22 3
Ans: 29. Ans. 30. Ans. 21. Ans.	A type of file that contains data is called data file. But software being used. For example Notepad's a type of text file with extension .txt. List any two file types from usage point of view. OR point of view. The types of files from usage point of view are as follows: i. Master file ii. Transaction File iii. Back up File. Differentiate between Master file and Transaction file. Master File The file is used to store the information that remains constant for a long period of time. These files are never empty since they are created. These files are updated when any change in their contents is required. List any two problems in traditional file approach. i. Data redundancy ii. Data inconsistency iii. Integrity problems iv. Security problem Define data manipulation. The process of applying different operations on data is called data manipulation. It includes the following operations: a. Classifying b. calculation c. sorting d. summarizing Describe network model.	11 22 33 44 5
Ans: 29. Ans. 30. Ans. 31. Ans. 32. ans.	A type of file that contains data is called data manipulation. Itx. software being used. For example Notepad's a type of text file with extension itxt. List any two file types from usage point of view. OR Files names from usage point of view. The types of files from usage point of view are as follows: I. Master File ii. Transaction File iii. Back up File (2 times) Master File Transaction file. (2 times) Master File Transaction File iii. Back up File (2 times) Master File Transaction File This type of file stores the input data before processing. It may be temporary file and may exist until the master file is updated. Use any two problems in traditional file approach. I. Data redundancy ii. Data inconsistency iii. Integrity problems iv. Security problem Define data manipulation. The process of applying different operations on data is called data manipulation. It includes the following operations: a. Classifying b. calculation c. sorting d. summarizing Describe network model. Each record in this model is called a node. A higher level node is called parent and	11 22 3
Ans: 29. Ans. 30. Ans. 21. ans. 3. ns.	A type of file that contains data is called data file. But software being used. For example Notepad's a type of text file with extension .txt. List any two file types from usage point of view. OR point of view. The types of files from usage point of view are as follows: i. Master file ii. Transaction File iii. Back up File. Differentiate between Master file and Transaction file. Master File The file is used to store the information that remains constant for a long period of time. These files are never empty since they are created. These files are updated when any change in their contents is required. List any two problems in traditional file approach. i. Data redundancy ii. Data inconsistency iii. Integrity problems iv. Security problem Define data manipulation. The process of applying different operations on data is called data manipulation. It includes the following operations: a. Classifying b. calculation c. sorting d. summarizing Describe network model.	11 22 33 44 5

b

A Plus Compater John

12th Class

34 What is the use of DML? DIVIL stands for Data Manipulation Language. It consists of SQL commands that ALC: are used to load update, query and the database using SELECT Commands, DML Commands include INSERT, UPDATE and DELETE. List three examples of database system. 35 Library Management System Acres. School Management System Account Management System. Write shortcut key to compile and run C program. (1+1) 36. Compile → Alt+F9 Acos. CTRL-59 Page 1 What is database system? OR What is the purpose of database system? 37. (2 times) It is a collection of data as well as programs required to manage that data. It is a Auto. computerized record keeping system. Its purpose is to maintain data and provide it to the user when it is required. Why do people use database? 38. People use database to retrieve the data quickly and easily. Database can store Arts. large amount of data efficiently. It allows the user to display and distribute data in many ways. Difference between database and database management system. 39. Ams. DBMS Database A collection of programs to create and A collection of related data is called databases is known as maintain database. database management system. 2019 What is the use of DDL? 40. DDL stands for Data Definition Language. It consists of SQL commands used to Ac15: define a database, creating tables, indexes and views. Some important commands of DDL include CREATE/DROP TABLE, ALTER TABLE, CREATE/DROP VIEW etc. Differentiate between data redundancy and data inconsistency? 41. Arts: Data inconsistency Data redundancy Data inconsistency means two files the means redundancy may contain different data of the n multiple duplication of data that causes wastage of storage same entity. Why is report generator used in database system? Report generator is used to produce reports. It retrieves data from database and 42. displays it in different formats. The user can use report generator to format page Aus: number, dates, titles and column headings etc. Why is it important to specify data type and size of a field? 43.

The data type of a field specifies the type of data that can be stored in the field. A field size defines the maximum number of characters that can be stored in a field. Ar151

LONG QUESTIONS OF CHAPTER-1 IN ALL PUNJAB BOARDS 2011-2021

List two examples of database system? Define database system. Explain any three components of database system. (3 times) 1. 2.

Explain database management system. Discuss any three advantages of DBMS 3.

What is a File? Explain three types of Files from usage point of view. Briefly describe the four advantages and four disadvantages of database 4.

5.

How a table/ relation is formed up in DBMS? Write down the properties of relation in 6. detail.

OBJECTIVES (MCQ'S) OF CHAPTER-2 IN ALL PUNJAB BOARDS 2011-2021

A relation is also known as: (A) table (B) tuple (C) relationship (D)	(6 Times))) field
(A) table (B) tuple (C) relationship (D) field
(e) take	
A table must have:	(7 Times)
(A) primary key (B) secondary key (C) composite key (D)) sort key
3. A relation is analogous to a :	
(A) row (B) field (C) record (D) file
4. Which of the following is not included in the definition of en	
(A) person (B) object (C) concept (D	
5. No. of primary keys can exist in a table:	
(A) one (B) two (C) three (D	lfour
6. Which of the following key does not hold uniqueness proper	
(A) candidate key (B)foreign key (C)primary key (D	
7. Which one of the following is used to associate entities with	
(A) attribute (B)relationship (C)entities (2)	
	(2 Times)
) index table
9. The selected candidate key is called:	midex table
PAY 1	composite key
10. DBA stands for :	composite key
(A) Database Administrator (8) Data basic Administrat	tion
(C) Database Application (D Database authority	CIGIT
11. A two-dimensional table of data is called:	
(A) Group (B) Set (C) Declaration (D)	Relation
12. A key is:	(Clation)
(A) A field that identifies only one record . (B) The most important field of table	eld in a record
(C) The first field of table (D) None	era iii a record
13. Which of the following is NOT a good primary key:	
(A) Carriella de la carriera del carriera del carriera de la carriera del la carriera de la carr	Student ID number
14. Which field listed below is the most appropriate primary key:	Student ID number
(A) A person's name (B) A person's street addre	220
(C) A person's birth date (D) A salesperson's region	
15. One field or combination of fields for which more than one re	cord man have the
same combination of values is called?	
(A) Secondary key (B) Index (C)Composite key (D)L	inked to.
16. An attribute in a relation of a database that serves as the prin	maru key
Telduon in the same database is called as	
(A) Global key (B)Link key (C)Foreign key (D)	Mana
17. Which of the following is distaknown as control leave	
(A) Secondary key (B) candidate key (C) Composite key (D) I	(2 times)
	rimary key
2017	
18. The process of arranging data in a logical	
(a) Sorting (b) Summarizing (c) Sequence is called:	(2times)
19. Which object is used to store data in database: (d) C (a) Macro (b) Table	Classifying
(a) Macro (b) Table	(2 times)
(d) (d) (d) (d) (e)	Report

20.	- I I foreign kov							(c) composite key (d) sort ke					
(a) 21.		The colu	imns o	f a relat	tion co	rrespo	nd to:-				(3 t	times)	
	Tab	le	is u	(b) Reco nique:			(c) Fie						
22. (a)	pri	mary key	Control of the last of the las	(b) Can	didate	key	(c) Fo	reign k	ey	(d)	Secon	dary K	ey
		***					2019						
23.		Which o	f the fo	ollowing	g can b	e a pri	mary k	ey?	. 10	(d)	Region		
(a)		Last nan A virtua	20	hl Sala	rv		(c) Cu	stomer	les is c				
24. (a)		view	table	(b) Tabl	e		(c) Re	lation		(d)	Tuple	u u	
(0)						AN	SWER	<u>S</u>	10.				
-	1	2	3	4	5	6	7	8	9	10	11	12 D	13 C
	Α	Α	D	D	A	D	B 20	B 21	A 22	23	D 24		
	14	15 C	16 C	17 C	18 A	19 B	C .	C	A	C	A		-
L	D	C											
			SI	ORT	QUI	ESTIC	ONS (OF CI	HAPT	ER-	2		
									2011-				
. ,			110	/ ha ha						1	of the same of the	اممسنه	
1.		Define I	Foreign	key.	-ibuto	or set o	of attrib	uites in	a relat	ion w		times) alues n	natch a
An	s:	nrimary	Low in	anoth	or rela	ation T	he rela	tion in	wnich	lorei	gn key	12 CLC	atcu is
		known	as depe	endent	table o	r child	table. V	Vhile o	ther tal	ble is	called	parent Times)	table.
2. An	٠.	Who is A data	admin	ictrato	r ic a	nerson	who	is res	ponsibl	e for	entire	data	of an
, All	٠.	organiz:	ation !	de norr	mally	levelor	s the c	overall	tunctio	nai r	equirer	nents	ioi tile
		databas databas			in the	office.	He co	ntrois	and ma	anage	s the v	viiole (uata Oi
3.		1416-6:0	+40 011	rnose	of usin	g views	5?					Times)	
An	s:	A view i	s also	known	as virt	ual tab	le. The	nd ille	gai usei	rs. A ۱	new ca	n also	aispiay
		-cords	from I	multiple	table	s. The	views	provide	e more	riexii	onity a	nd sec	urity in
٠, ٠		displayi What is	ng data	ttals	o displ	ays dat	a accor rimarv	ding to kev an	specifi d foreig	gn key	11at.		
4. An	s:	D .	1	an attri	huta	or set o	f attrib	utes tr	nat unic	ueiv	iaentiii	es reco	ord in a
		table. F	oreign	key is	attrib	ute or	a set o	of attri	butes	whose	e value	s mate	en with
5.		primary Define t	ha tare	m rolati	on								
	Ans: A relation is used to store information about an entity. It is another name of a												
	table. It consists of rows and columns. It is defined as: Student(name,roll_no,marks,average)												
		Student	(name, is nam	roll_no ne of re	,marks elation	/table.	While	name,	, marks	aver	age are	e the f	ields or
		columns	of the	table.								times)	
6. An		An entit	entity.			ا مامادات		at to k	een int	forma			
···		The ent	ity mu	ytning a st have	about a uni	wnich iaue id	entifie	r. The	identifi	er is	compo	sed of	one or
		more at	tribute	s.		7							
The same of													

10

7. What is primary key?

(2 Times)

Ans:

Primary key is attribute or set of attributes that uniquely identify record in a table. Every relation/table must have a primary key. Only a single primary key can use in a relation. It is underlined in a relation. i.e.

Reg no

Name

Address

Contact

Here reg_no is a primary key.

8. List different types of keys.

(2 times)

Ans:

i. primary key ii. candidate key iii. composite key or concatenate key iv. alternate key v. foreign key vi. sort key vii. secondary key

Differentiate between primary and secondary key.

Ans:

Primary key	Se
Primary key is attribute or set of	Secondary key
attribute that uniquely identify record	An attribute o
in a table. Every table has only one	basis for retrie
	key. One secon

Secondary key

Secondary key is non-unique attribute. An attribute or set of attributes that is basis for retrieval is known as secondary key. One secondary key value may refer to many records.

2016

10. Define composite key.

(2 Times)

Ans:

A primary key that contains two or more attributes is called composite key. For example: Roll no and Subject both attributes are used to identify each tuple in a relation.

Example:

Roll No.	Subject	Marks
1	English	52
1	Math	77
1	Computer	64
2	English	58
2	Math	69

11. Differentiate between candidate key and primary key.

Ans:

Candidate key	Primary key
A relation has more than such	
attributes or combination of attributes,	
each is called candidate key. i.e. any key	record in a table.
that can be act as primary key is	
candidate key.	

12. Who is a database administrator?

Ans: A database administrator is an important person in the development of any database system. He is responsible for the design, implementation, operation, management and maintenance of database system. he must be a technically competent and a good manager.

13. How a relation is formed in database?

(3 Times)

Ans:

The relations are formed according to the attributes of entity about which information is to be stored. The attributes of entity becomes the fields of the relation. The name of the entity becomes the name of the relation.

14. What is Secondary keyr

A field or combination of fields that is basis for retrieval is called secondary key. it Ans: is a non-unique field. One secondary key value can be refer to many records.

(2 Times) Who is End User? 15.

A end user is a person who use computer for his own need. He might have a moderate knowledge of computer, computer science and information technology. Ans: He does not need to know in depth knowledge of computer system.

Differentiate between Fixed Length Field and Variable Length Field. 16.

A fixed length contains a predefined numbers of characters (bytes). The data Ans: cannot be exceed then the allocated length of the field.

A variable length field cannot have a predefined number of characters (bytes). It occupies the space according to the data entered by the user.

Write two responsibilities of a Database Administrator.? 17.

1. He assigns different permissions to the database users. Ans:

2. He monitors the database system and solving the different problems that occur in the DB system.

What is meant by data modeling? 18.

Data modeling is the process of identifying the data objects and the relationship between them.

2017

What are views? 19.

View is known as virtual table. It is created by using SQL. It is powerful database Ans. language. The basic purpose of using view is to keep data safe and secure from unauthorized and illegal users.

Define key? 20.

A key is an attribute or set of attributes that uniquely identifies a tuple in a relation. They are also used to create relationship between different tables. Ans.

2018

What is the basic purpose of using view? 21.

(3 times)

It keeps the data safe and secure from unauthorized and illegal users. Views Ans. provides descriptions of relations that are not stored but needed from stored relations. It also provides flexibility in displaying data.

2019

Write three important characteristics of a primary key?

i. A relation can have only one primary key. Ans:

ii. Each value in primary key attribute must be unique.

iii. Primary key cannot contain null values:

23. Why are keys defined in tables?

The keys are defined in tables to access or sequence the stored data quickly and Ans: smoothly. They are also used to create relationship between different tables.

OBJECTIVES (MCQ'S) OF CHAPTER-3 IN ALL PUNJAB BOARDS 2011-2019

(A) logical design (B) physical design (C) analysis (Times) 2. An entity related to itself in an ERD model refers to: (A) recursive relationship (D) one-to-one (B) one-to-many (D) one-to-one (B) and attribute is also known as a: (A) relation (B) table (C) row (D) field (A) cars and parts are example of: (A) concepts (B) attributes (C) entities (D) none of these (A) concepts (B) attributes (C) group (D) relationship (A) entity (B) attributes (C) group (D) relationship (A) entity (B) attributes (C) group (D) relationship (A) entity (B) attribute (C) group (D) relationship (D) tuple (A) entity (B) attribute (C) group (D) relationship (D) tuple (B) Data item (C)Record (D) tuple (B) Data item (C)Record (D) tuple (D) relationship (D) tuple (D) relationship (D) tuple (D) relationship (D) tuple (D) relationship (D) re	1. Organize the database in computer disk storage is done in: (2 times)
2. An entity related to itself in an ERD model refers to: (A) recursive relationship (C) many-to-many (D) one-to-one 3. An attribute is also known as a: (A) relation (B) table (C) row (D) field 4. Cars and parts are example of: (A) concepts (B) attributes (C) entities (D) none of these (2 times) (A) entity (B) attributes (C) group (D) relationship (C) 4 (D) 6 (D) 7 (E)	(A) logical design (D) physical design (C)analysis (D)implementation
(A) recursive relationship (C) many-to-many (C) many-to-many (D) one-to-one 3. An attribute is also known as a: (A) relation (B) table (C) row (D) field (C) row (D) field (C) cars and parts are example of: (A) concepts (B) attributes (C) entities (D) none of these (C) aroup (D) relationship (D) relationship (E) entity (B) attributes (C) group (D) relationship (D) relationship (A) 2 (B) 3 (C) 4 (D) 5 (C) 4 (D) 5 (D) relationship (E) Attribute (B) Data item (C) Record (D) tuple (E) Which of the following is used to associate entities with one another: (A) Entity (B) Attribute (B) Attribute (C) Identifier (D) relationship (A) attribute (B) entity (C) relationship (D) field (E) fi	2. An entity related to itself in an ERD model refers to: (4 times)
3. An attribute is also known as a: (A) relation (B)table (C) row (D) field 4. Cars and parts are example of: (A) concepts (B) attributes (C) entities (D) none of these 5. The ER diagram is used for: (A) entity (B) attributes (C) group (D) relationship 6	(A) recursive relationship (B) one-to-many
3. An attribute is also known as a: (A) relation (B)table (C) row (D) field 4. Cars and parts are example of: (A) concepts (B) attributes (C) entities (D) none of these 5. The ER diagram is used for: (A) entity (B) attributes (C) group (D) relationship 6	(C) many-to-many (D) one-to-one
(A) relation (B) table (C) row (D) field 4. Cars and parts are example of: (A) concepts (B) attributes (C) entities (D) none of these (E) cars and parts are example of: (A) concepts (B) attributes (C) group (D) relationship (E) care (B) attributes (C) group (D) relationship (E) care (B) 3 (C) 4 (D) 5 (C) care (B) 3 (C) 4 (D) 5 (C) care (B) 3 (C) 4 (D) 5 (C) care (C) care (D) tuple (C) care (C) car	3. An attribute is also known as a: (3 rimes)
4. Cars and parts are example of: (A) concepts (B) attributes (C) entities (D) none of these 5. The ER diagram is used for: (2 times) (A) entity (B) attributes (C) group (D) relationship 6	(A) relation (B)table (C) row (D)field
(A) concepts (B) attributes (C) group (D) prelationship (A) entity (B) attributes (C) group (D) prelationship (A) 2 (B) 3 (C) 4 (D) 5 (C) 4 (D) 5 (D) tuple (E) Attribute (B) Data item (C) Record (C) tuple (E) Attribute (B) Data item (C) Record (D) tuple (E) Times (A) Attribute (B) Data item (C) Record (D) tuple (E) Times (A) Entity (B) Attribute (B) Attribute (C) Identifier (D) relationship (E) Concept (E) Concept (E) Concept (D) Relationship (D) Relationship (D) Relationship (E) Concept (E) Concept (D) Relationship (D) Relatio	4. Cars and parts are example of:
5. The (B) attributes (C) group (D) relationship 6 types of relationship can be used: (A) 2 (B) 3 (C) 4 (D) 5 7. The category of data that describes an entity is (2 Times) (A) Attribute (B) Data item (C)Record (D) tuple 8. Which of the following is used to associate entities with one another: (A) Entity (B) Attribute (C) Identifier (D) relationship 9. In an E-R diagram, a rectangle represents (n): (4 Times) (A) attribute (B) entity (C) relationship (D) field 10. Which of following is used to define objects and describe their characteristics: (4 times) (A) Attribute (B) Relationship (C)Both a and b (D)None 11. Which of the following is an example of one-to-one relationship? (A) Student-RegNo (B)Person-automobile (C)Mother-daughter 12. Which is NOT included in the definition of an entity: (A) Person (B)Object (C) Concept (D)Action 13. The relationship can be: (A) One-to-one (B) One-to-many (C) Many-to-many (D)All 14. Physical database design decisions must be made carefully because of impacts on: (A) Data accessibility (B) Response times (C) Security (D)All 15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (B) Data distribution strategy (C) File organization (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b (A) View integration (B) View entities (C) Both a and b	(A) concepts (B) attributes (C) entities (D)none of these
(A) entity (B) attributes (C) group (D)relationship 6	5. The FR diagram is used for: (2 times)
(A) 2 (B) 3 (C) 4 (D)5 7. The category of data that describes an entity is (2 Times) (A) Attribute (B) Data item (C)Record (D) tuple 8. Which of the following is used to associate entities with one another: (A) Entity (B) Attribute (C)Identifier (D), relationship 9. In an E-R diagram, a rectangle represents (n): (4 Times) (A) attribute (B) entity (C) relationship (D) field 10. Which of following is used to define objects and describe their characteristics: (A) Attribute (B) Relationship (C)Both a and b (D)None 11. Which of the following is an example of one-to-one relationship? (A) Student-RegNo (B)Person-automobile (C)Mother-daughter (D)Person-phone number 12. Which is NOT included in the definition of an entity: (A) Person (B)Object (C) Concept (D)Action 13. The relationship can be: (A) One-to-one (B) One-to-many (C) Many-to-many (D)All 14. Physical database design decisions must be made carefully because of impacts on: (A) Data accessibility (B) Response times (C) Security (D)All 15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data Volume and usage analysis (B) Data distribution strategy (C) File organization (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b (D) None	(A) entity (B) attributes (C) group (D) relationship
(A) 2 (B) 3 (C) 4 (D)5 7. The category of data that describes an entity is (2 Times) (A) Attribute (B) Data item (C)Record (D) tuple 8. Which of the following is used to associate entities with one another: (A) Entity (B) Attribute (C)Identifier (D), relationship 9. In an E-R diagram, a rectangle represents (n): (4 Times) (A) attribute (B) entity (C) relationship (D) field 10. Which of following is used to define objects and describe their characteristics: (A) Attribute (B) Relationship (C)Both a and b (D)None 11. Which of the following is an example of one-to-one relationship? (A) Student-RegNo (B)Person-automobile (C)Mother-daughter (D)Person-phone number 12. Which is NOT included in the definition of an entity: (A) Person (B)Object (C) Concept (D)Action 13. The relationship can be: (A) One-to-one (B) One-to-many (C) Many-to-many (D)All 14. Physical database design decisions must be made carefully because of impacts on: (A) Data accessibility (B) Response times (C) Security (D)All 15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data Volume and usage analysis (B) Data distribution strategy (C) File organization (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b (D) None	6 types of relationship can be used:
(A) Attribute (B) Data item (C)Record (D) tuple 8. Which of the following is used to associate entities with one another: (A) Entity (B) Attribute (C) Identifier (D), relationship 9. In an E-R diagram, a rectangle represents (n): (A) attribute (B) entity (C) relationship (D) field 10. Which of following is used to define objects and describe their characteristics: (A) Attribute (B) Relationship (C)Both a and b (D)None 11. Which of the following is an example of one-to-one relationship? (A) Student-RegNo (B)Person-automobile (C)Mother-daughter (D)Person-phone number 12. Which is NOT included in the definition of an entity: (A) Person (B)Object (C) Concept (D)Action 13. The relationship can be: (A) One-to-one (B) One-to-many (C) Many-to-many (D)All 14. Physical database design decisions must be made carefully because of impacts on: (A) Data accessibility (B) Response times (C) Security (D)All 15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (B) Data distribution strategy (C) File organization (D) Normalize the Relations (D) Normalize the Relations (D) Normalize the Relations (C) File organization (B) Mandatory (C) Unidirectional (D) Both a and b (D) Nore 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b (D) Normalize the Relation is also known as: (C) Both a and b (D) None	(A) 2 (B) 3 (C) 4 (D)5
(A) Attribute (B) Data item (C)Record (D) tuple 8. Which of the following is used to associate entities with one another: (A) Entity (B) Attribute (C)Identifier (D) relationship 9. In an E-R diagram, a rectangle represents (n): (4 Times) (A) attribute (B) entity (C) relationship (D) field 10. Which of following is used to define objects and describe their characteristics: (4 times) (A) Attribute (B) Relationship (C)Both a and b (D)None 11. Which of the following is an example of one-to-one relationship? (A) Student-RegNo (B)Person-automobile (C)Mother-daughter (D)Person-phone number 12. Which is NOT included in the definition of an entity: (A) Person (B)Object (C) Concept (D)Action 13. The relationship can be: (A) One-to-one (B) One-to-many (C) Many-to-many (D)All 14. Physical database design decisions must be made carefully because of impacts on: (A) Data accessibility (B) Response times (C) Security (D)All 15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data Plow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b (D)None (A) View integration (B) View entities (C) Both a and b (D)None	7. The category of data that describes an entity is 7. Times
(A) Entity (B) Attribute (C)Identifier (D) relationship 9. In an E-R diagram, a rectangle represents (n): (4 Times) (A) attribute (B) entity (C) relationship (D) field 10. Which of following is used to define objects and describe their characteristics: (A) Attribute (B) Relationship (C)Both a and b (D)None 11. Which of the following is an example of one-te-one relationship? (A) Student-RegNo (B)Person-automobile (C)Mother-daughter (D)Person-phone number 12. Which is NOT included in the definition of an entity: (A) Person (B)Object (C) Concept (D)Action 13. The relationship can be: (A) One-to-one (B) Ope-to-many (C) Many-to-many (D)All 14. Physical database design decisions must be made carefully because of impacts on: (A) Data accessibility (B) Response times (C) Security (D)All 15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (B) Data distribution strategy (C) File organization (D) Normalize the Relations (D) Normalize t	(A) Attribute (B) Data item (C)Record (D) tuple
(A) Entity (B) Attribute (C) Identifier (D) relationship 9. In an E-R diagram, a rectangle represents (n): (4 Times) (A) attribute (B) entity (C) relationship (D) field 10. Which of following is used to define objects and describe their characteristics: (4 times) (A) Attribute (B) Relationship (C)Both a and b (D)None 11. Which of the following is an example of one-to-one relationship? (A) Student-RegNo (B)Person-automobile (C)Mother-daughter (D)Person-phone number 12. Which is NOT included in the definition of an entity: (A) Person (B)Object (C) Concept (D)Action 13. The relationship can be: (A) One-to-one (B) One-to-many (C) Many-to-many (D)All 14. Physical database design decisions must be made carefully because of impacts on: (A) Data accessibility (B) Response times (C) Security (D)All 15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (B) Data distribution strategy (C) File organization (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b (A) Optional (B) Merging the relation is also known as: (C) Editor (C) Unidirectional (D) Both a and b (D)None	8. Which of the following is used to associate entities with one another:
(A) attribute (B) entity (C) relationship (D) field 10. Which of following is used to define objects and describe their characteristics: (A) Attribute (B) Relationship (C)Both a and b (D)None 11. Which of the following is an example of one-to-one relationship? (A) Student-RegNo (B)Person-automobile (C)Mother-daughter (D)Person-phone number 12. Which is NOT included in the definition of an entity: (A) Person (B)Object (C) Concept (D)Action 13. The relationship can be: (A) One-to-one (B) One-to-many (C) Many-to-many (D)All 14. Physical database design decisions must be made carefully because of impacts on: (A) Data accessibility (B) Response times (C) Security (D)All 15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (B) Data distribution strategy (C) File organization (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (A) View integration (B) View entities (C) Both a and b (D)None	(4 Times)
(A) attribute (B) entity (C) relationship (D) field 10. Which of following is used to define objects and describe their characteristics: (A) Attribute (B) Relationship (C)Both a and b (D)None 11. Which of the following is an example of one-to-one relationship? (A) Student-RegNo (B)Person-automobile (C)Mother-daughter (D)Person-phone number 12. Which is NOT included in the definition of an entity: (A) Person (B)Object (C) Concept (D)Action 13. The relationship can be: (A) One-to-one (B) One-to-many (C) Many-to-many (D)All 14. Physical database design decisions must be made carefully because of impacts on: (A) Data accessibility (B) Response times (C) Security (D)All 15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (B) Data distribution strategy (C) File organization (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (A) View integration (B) View entities (C) Both a and b (D)None	(A) Entity (B) Attribute (C)Identifier (D) relationship
(A) attribute (B) entity (C) relationship (D) field 10. Which of following is used to define objects and describe their characteristics: (A) Attribute (B) Relationship (C)Both a and b (D)None 11. Which of the following is an example of one-to-one relationship? (A) Student-RegNo (B)Person-automobile (C)Mother-daughter (D)Person-phone number 12. Which is NOT included in the definition of an entity: (A) Person (B)Object (C) Concept (D)Action 13. The relationship can be: (A) One-to-one (B) One-to-many (C) Many-to-many (D)All 14. Physical database design decisions must be made carefully because of impacts on: (A) Data accessibility (B) Response times (C) Security (D)All 15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (B) Data distribution strategy (C) File organization (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (A) View integration (B) View entities (C) Both a and b (D)None	9. In an E-R diagram, a rectangle represents (n): (4 Times)
10. Which of following is used to define objects and describe their characteristics: (A) Attribute (B) Relationship (C)Both a and b (D)None 11. Which of the following is an example of one-to-one relationship? (A) Student-RegNo (B)Person-automobile (C)Mother-daughter (D)Person-phone number 12. Which is NOT included in the definition of an entity: (A) Person (B)Object (C) Concept (D)Action 13. The relationship can be: (A) One-to-one (B) One-to-many (C) Many-to-many (D)All 14. Physical database design decisions must be made carefully because of impacts on: (A) Data accessibility (B) Response times (C) Security (D)All 15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (B) Data distribution strategy (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b (D) None 2017	(A) attribute (B) entity (C) relationship (D) field
(A) Attribute (B) Relationship (C)Both a and b (D)None 11. Which of the following is an example of one-to-one relationship? (A) Student-RegNo (B)Person-automobile (D)Rerson-phone number 12. Which is NOT included in the definition of an entity: (A) Person (B)Object (C) Concept (D)Action 13. The relationship can be: (A) One-to-one (B) One-to-many (C) Many-to-many (D)All 14. Physical database design decisions must be made carefully because of impacts on: (A) Data accessibility (B) Response times (C) Security (D)All 15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (A) View integration (B) View entities (C) Both a and b (D)None	10. Which of following is used to define objects and describe their characteristics:
(A) Attribute (B) Relationship (C)Both a and b (D)None 11. Which of the following is an example of one-to-one relationship? (A) Student-RegNo (B)Person-automobile (C)Mother-daughter (D)Person-phone number 12. Which is NOT included in the definition of an entity: (A) Person (B)Object (C) Concept (D)Action 13. The relationship can be: (A) One-to-one (B) One-to-many (C) Many-to-many (D)All 14. Physical database design decisions must be made carefully because of impacts on: (A) Data accessibility (B) Response times (C) Security (D)All 15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (D) Normalize the Relations (C) File organization (D) Normalize the Relations (D) Normalize the Relations (C) File organization (D) Normalize the Relations (C) Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b (D) None 2017	(4 times)
(A) Student-RegNo (C)Mother-daughter (D)Person-phone number 12. Which is NOT included in the definition of an entity: (A) Person (B)Object (C) Concept (D)Action 13. The relationship can be: (A) One-to-one (B) One-to-many (C) Many-to-many (D)All 14. Physical database design decisions must be made carefully because of impacts on: (A) Data accessibility (B) Response times (C) Security (D)All 15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (B) Data distribution strategy (C) File organization (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (C) Both a and b (C) Both a and b (D)None	(A) Attribute (B) Relationship (C)Both a and b (D)None
(A) Student-RegNo (C)Mother-daughter (D)Person-phone number 12. Which is NOT included in the definition of an entity: (A) Person (B)Object (C) Concept (D)Action 13. The relationship can be: (A) One-to-one (B) One-to-many (C) Many-to-many (D)All 14. Physical database design decisions must be made carefully because of impacts on: (A) Data accessibility (B) Response times (C) Security (D)All 15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (B) Data distribution strategy (C) File organization (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (C) Both a and b (C) Both a and b (D)None	11. Which of the following is an example of one-to-one relationship?
12. Which is NOT included in the definition of an entity: (A) Person (B)Object (C) Concept (D)Action 13. The relationship can be: (A) One-to-one (B) One-to-many (C) Many-to-many (D)All 14. Physical database design decisions must be made carefully because of impacts on: (A) Data accessibility (B) Response times (C) Security (D)All 15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (B) Data distribution strategy (C) File organization (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (A) View integration (C) Socurity (D)All (C) Both a and b (D)None	(A) Student-RegNo (B)Person-automobile
12. Which is NOT included in the definition of an entity: (A) Person (B)Object (C) Concept (D)Action 13. The relationship can be: (A) One-to-one (B) One-to-many (C) Many-to-many (D)All 14. Physical database design decisions must be made carefully because of impacts on: (A) Data accessibility (B) Response times (C) Security (D)All 15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (B) Data distribution strategy (C) File organization (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (A) View integration (C) Socurity (D)All (C) Both a and b (D)None	(C)Mother-daughter (D)Person-phone number
(A) Person (B) Object (C) Concept (D) Action 13. The relationship can be: (A) One-to-one (B) One-to-many (C) Many-to-many (D) All 14. Physical database design decisions must be made carefully because of impacts on: (A) Data accessibility (B) Response times (C) Security (D) All 15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D) None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (B) Data distribution strategy (C) File organization (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C) Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (A) View integration (B) View entities (C) Both a and b (D) None	12. Which is NOT included in the definition of an entity:
13. The relationship can be: (A) One-to-one (B) One-to-many (C) Many-to-many (D)All 14. Physical database design decisions must be made carefully because of impacts on: (A) Data accessibility (B) Response times (C) Security (D)All 15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (B) Data distribution strategy (C) File organization (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (A) View integration (B) View entities (C) Both a and b (D)None	(A) Person (B)Object (C) Concept (D)Action
(A) One-to-one (B) One-to-many (C) Many-to-many (D) All 14. Physical database design decisions must be made carefully because of impacts on: (A) Data accessibility (B) Response times (C) Security (D) All 15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D) None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (B) Data distribution strategy (C) File organization (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C) Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (A) View integration (B) View entities (C) Both a and b (D) None	12 The relationship can be:
14. Physical database design decisions must be made carefully because of impacts on: (A) Data accessibility (B) Response times (C) Security (D)All 15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (B) Data distribution strategy (C) File organization (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (A) View integration (B) View entities (C) Both a and b (D)None	(A) One-to-one (B) One-to-many (C) Many-to-many (D) All
(A) Data accessibility (B) Response times (C) Security (D)All 15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (B) Data distribution strategy (C) File organization (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (A) View integration (B) View entities (C) Both a and b (D)None	14. Physical database design decisions must be made carefully because of impacts on:
15. Merge relation is important because: (A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (B) Data distribution strategy (C) File organization (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C) Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (A) View integration (B) View entities (C) Both a and b (D) None	(A) Data accessibility (B) Response times (C) Security (D)All
(A) Different views may need to be integrated (B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (B) Data distribution strategy (C) File organization (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (A) View integration (B) View entities (C) Both a and b (D)None	
(B) New data requirements may produce new relations to be merged (C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (B) Data distribution strategy (C) File organization (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (A) View integration (B) View entities (C) Both a and b (D)None	(A) Different views may need to be integrated
(C) Both a and b (D)None 16. All of the following components of physical database design except? (A) Data volume and usage analysis (C) File organization (D) Normalize the Relation strategy (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (A) View integration (B) View entities (C) Both a and b (D)None	(B) New data requirements may produce new relations to be merged
16. All of the following components of physical database design except? (A) Data volume and usage analysis (B) Data distribution strategy (C) File organization (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (A) View integration (B) View entities (C) Both a and b (D)None	(C) Both a and h
(A) Data volume and usage analysis (C) File organization (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (A) View integration (B) View entities (C) Both a and b (D)None	16. All of the following components of physical database design except?
(C) File organization (D) Normalize the Relations 17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (A) View integration (B) View entities (C) Both a and b (D)None	(A) Data volume and usage analysis (B) Data distribution strategy
17. Which of the following activities are involved in data analysis? (A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (A) View integration (B) View entities (C) Both a and b (D)None 2017	(C) File organization (D) Normalize the Relations
(A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All 18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (A) View integration (B) View entities (C) Both a and b (D)None 2017	17 Which of the following activities are involved in data analysis?
18. Which of the following is related to Modality: (A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (A) View integration (B) View entities (C) Both a and b (D)None 2017	(A) Data Flow diagram (B) Decision Tables (C)Decision Trees (D) All
(A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b 19. Merging the relation is also known as: (A) View integration (B) View entities (C) Both a and b (D)None 2017	18. Which of the following is related to Modality:
Merging the relation is also known as: (A) View integration (B) View entities (C) Both a and b (D)None 2017	(A) Optional (B) Mandatory (C) Unidirectional (D) Both a and b
(A) View integration (B) View entities (C) Both a and b (D)None 2017	Merging the relation is also known as:
2017	(A) View integration (B) View entities (C) Both a and b (D)None
The degree of relation refers to the number of: (3 times)	
ALL THE DESIGN OF LODGE TO A SECTION AND A SECTION ASSESSMENT AND A SECTION ASSESSMENT A	The degree of relation refers to the number of: (3 times)
(1) totale (a) data (d) actions	(1) Andreas (a) data
(a) rows (b) tables (c) data (d) columns 21. All the hardware costs are considered during: (4 times)	
(a) project planning (b) requirement analysis	

12th Class (d) data analysis (c) feasibility study (4 times) In an E-R Diagram, a diamond represents a(n): (d) easier programming 22. (c) relationship (b) attribute (a) entity (3 times) Customers, cars are examples of: (d) Relationships 23. (c) Cardinals (b) Attributes (a) Entities A database consists of various components called: (d) Objects

2018

(c) Entities

Which of the following is a one-to-many relation? 25.

(b) Properties

(a) Mother-daughter

(b) Person-Date of Birth

(c) both A and B

(d) Country-Capital

A person name, birthday and social security number are example of: 26.

(a) Attributes

24.

(a) Tools

(b) Entitles

(c) relationship

(d) Descriptors

					AN:	SWER	S				13	13
1	7	- a	44	3	0	7	8	9	10	11	12	0
1	^	D	В	A	В	Α	D	В	A	A	0	36
В	The same of the sa	0.0		0.62	10	20	21	22	23	24	25	26
14	15	16	1/	, 20	A	n	-	C	А	D	В	Α
C	D	D	D	A	A							

SHORT QUESTIONS OF CHAPTER-3 IN ALL PUNJAB BOARDS 2011-2021

A comprehensive planning and schedule must be developed to complete the 1. project successfully. All cost factors are also taken into consideration. Different Ans: cost factors include:

salaries of team members. 0

Logistics and hardware costs.

What is the concept of data distribution strategy? The basic data distribution strategies are as follows 2. Ans:

Centralized: In this strategy, all data is located at a single site.

Partitioned: In this strategy, the database is divided into partitions or fragments. Replicated: In this strategy, the full copy of database is assigned to more than one

Hybrid: In this strategy, the database is partitioned into critical and non-critical fragments.

List two properties of a relation. 3.

The relationship can be. Ans:

One-to-one

ii. One-to-many

iii. Many-to-many

iv. Recursive.

Define an attribute. Give an example.

(2 times)

The characteristics or properties of an entity are called attributes. An entity may have many attributes. For example Name, Address, phone No, and class are some Ans: attributes of the STUDENT entity.

5.

A logical connection between entitles is called relationship. The relationship indicates how entities are connected to each other. For example, there is a relationship between MANAGER and DEPARTMENT. A manager manages the department, on the other hand a department is managed by a manager. This leads to a relationship called "MANAGER and Department.

6. Define Entity or Object. (2 Times)

Anything that is participating in system is known as entity or object. An entity can Ans: be person, place or thing for which data is collected and maintained. i.e. teacher student etc.

7. List two data distribution strategy.

1. Centralized: all data is located at a single site in this strategy. Ans: 2. partitioned: database is divided into partitions and fragments.

8. List out two types of relationship.

Ans: 1. One-to-one relationship 2. one-to-many relationship

9. Write the use of ER-diagram.

An E-R diagram is a graphical representation of entities in a database and Ans: relationships between them. It tells the basic structure of the relations of the entities and how they associate with each other. Rectangle represents entity, diamonds are used for relationships and oval is used to represent attributes. 10.

Name the symbols used in E-R model for attribute and entity. Ans:

Oval shape is used for represents attributes. And rectangle is used for entity. 11.

Define Modality?

Minimum number of instances of one entity associated with each instance of the Ans: related entity. It describes the relationship as mandatory or optional. When minimum number of instances is zero, relationship is optional. Relationship is mandatory when minimum number of instances is one or more.

List advantages of RDBMS. 2.

ns: 1. Easy to use. Secure. 3. Data manipulation. 5. Provide physical data independence. 4. Better integrity. .

What is Analysis in Database? OR What is the purpose of Analysis? is:

A process of studying the existing system is known as analysis. The basic purpose of analysis in DB is to know which activities are performed in the current system. Analysis also determines what should take place in DB to make it consistent and

Define Cardinality.

The number of entity occurrences associated with each occurrence of the related (3 Times) entities known as cardinality tells us that how much occurrences of the entity take place with respect to other related entity tells us the maximum number of

relationships. It maybe one or many. State the objective of physical database design.

The major objective of physical database design is to implement the database as a set of records, files, indexes and other data structures.

List any two activities involved in Data Analysis.

1. Data flow diagram (DFD). 2. Decision tables. 3. Decision trees.

Give two examples of Entity. Examples of entities are as follow:

1. Person: teacher, player, doctor

2. Place: country, city

2017

Write the names of two relationship types?

i) One to one relationship.

One to many relationship. H)

Difference between degree and cardinality of a relation?

Cardinality number The entity occurrence with related entity is known as cardinality.

Cardinality specifies maximum number of relationships.

Degree

i) It is no. of attributes of its

II) No. of associations among two or more entities.

It is also called preliminary investigation. It is conducted to investigate the required Ans. database system. It determines whether the proposed system is affordable, possible and acceptable. It also determines whether the area of project should be first.

Define the term degree of a relationship? 21.

The number of entity occurrences associated with each occurrence of the related Ans. entity is known as degree of relationship.

Why requirement analysis is conducted? 22.

It is conducted to collect the requirements for the project. These requirements Ans. include the possible inputs for database and required functionality of the project.

2018

Identify name of entity and primary key in the following STUDENT (Student ID, 23. St, name)

STUDENT Entity Ans. Student ID. Primary key

Distinguish between Entity and Entity Instance. 24.

Ans.

Entity	Entity Instance
Anything that is participating in the system is known as entity. An entity can be a person, place, thing or event	known as all entity instance.

- Write any two criterias to select file organization. 25.
- The criteria to select file organization are: Ans.
 - i. Efficient use of storage space.
 - ii. protection from failure or data loss.

2019

Differentiate between cardinality and modality? 26.

Ans:

U. T. Linn	Modality
Cardinality The maximum number of instances of one entity associated with each instance of the related entity is known as cardinality.	inclain by of othe clienty agreement

How is database integrity maintained? 27.

Database integrity is maintained with the help of integrity constraints. The constraints are the rules that are designed to keep data consistent and correct. Ans: They act like a check on the incoming data. DBMS provides several mechanisms to enforce integrity of the data.

What is the purpose of logical database design? 28.

The logical or conceptual model describes the data stored in the database. It Ans: contains the definition of the data to be stored in database. It also contains the rules and information about the structure and type of data. It is the complete description of data stored in database.

OBJECTIVES (MCQ'S) OF CHAPTER-4 IN ALL PUNJAB BOARDS 2011-2021

1.	Differe	nt attri	butes	n two	differe	nt tabl	es havi	ng san	ne nam	e are	referr	ed to) a
(A) syn				monyn		(C)ad	cronym	١.,	(D)m	utuall	y exclu	Isive	ner-
2.	•	al of no	•						(2	Times)		
(A) inc	rease n			1		(B) g	et stal	ole dat	a stru	cture			
	rease re				κ,		(D)	none c	of thes	е		2	
3.	In 3NF,			f depe	ndency	is rem	noved?		(6	Times)		
	ctional		(B) noi	n-funct	ional	(C)	associa	ative)transi	tive		
4.	Two or	more a	ittribut	es hav	ing dif	ferent	names	but sa	me me	aning	are ca	alled	li.
				4						Times			•
(A) hon	nonyms		(B) alia	ses		(C)sy	nonyn	าร) alter	1	ittrik	3114-
5.	Which	of the f	ollowi	ng ano	malies	result	from a	transi	tive de	pende	ncv:		rutes
	ertior			dificat			eletion) All	.,.cy.,		
6.	Every r	elation	must h	ave:		9		1 -		Times	1		
(A) Prin	nary ke	У	(B) Car	ndidate	e key	(C) S	econdar	vkev		Mutua		ich ion	
7.	A rule t	hat sta	tes tha	t each	foreign	n kev v	alue m	ust ma	tch a	nrima	w kou	valu	1622
	the oth	er relat	ion is	alled:					itti a	primar	y key	valu	ie in
(A) Refe	rential	integrit	y cons	traint		(B) K	ev mat	ch rule			× .		
(C) Entit	ty key g	roup ru	le .					primar		h rulo			
8.	The atti	ribute c	on the	left-ha	nd side	e of the	arrow	in a fu	inction	al don	andar	and l	
(A) Cand	didate k	ey	(B) Det	ermin	ant	(C)Fo	reign l	KeV.	(D)	Drim	enuer	icy i	5.
9.	A relation	on that	conta	ins mir	imal r	edunda	ancv ar	nd allov	VS BASI	, riiiii e	calle	у.	٠,
(A) Clea	in		(B) Sim	ple		(C)C	omplex			Well-			1
10.	n 2NF,	which f	form o	fdepe	ndency	is rem	oved:	•		Times)		urec	1
(A) Fund	ctional		(B) Par	tial			Associa			Transi			
	A functi					tow o	r more	non-ke	ری ev attri	hutes	is call	043	
(A) Parti	al funci	tional d	epend	ency		(B) P	artial n	on-key	depen	dency	is call	eur	
(C) Tran	sitive d	epende	ncy			(D)N		,		acticy			
, °4							1 10 mg / mg	•					
1.0						2018	3		•:				
12.	const	raint be	etweei	n two a	ttribu	tes is ca	alled:						
(A) func								e deper	ndency				
(C) func						(D) i	elation	constr	raint				
	n 3 NF			l Form), a no	n-key a	ttribut	e must	not de	nand			
		•						- 111036		rimes)	on a:	*	
(A) Non	-key at	tributes	5			(B) k	ey attri	butes	(3)	illes)	9		
(C) Com							Sort ke						
		,			An	NSWE	-		2				
1	2	3	-4	5	6	7	8	9	10	11	12	1	3
	1	n 1		P9.			The second second second	AND SHEET AND ADDRESS OF THE PARTY OF THE PA	1			-	

В

В

C

SHORT QUESTIONS OF CHAPTER-4 IN ALL PUNJAB BOARDS 2011-2021

Define Determinant.

Ans: A determinant is an attribute whose value enables us to obtain the values of other related attributes. It appears on the left side of a functional dependency. Thus, in A > B, the determinant is A.

What are database anomalies? Only list their names. (4 Times)

Ans: Database anomalies are the errors/mistakes that occur due to duplication of data in the relations. These anomalies affect the process of inserting, deleting and modifying data in the relations. Important data may be lost if a relation with database anomalies is updated. Following are the types of anomalies.

i. Insertion anomaly ii. Deletion anomaly iii. Modification anomaly

2016

3. How is data integrity maintained?

Ans: Data integrity is maintained with the help of integrity constraints. These constraints are the rules which are used to make the data consistent and correct. They act like a check on incoming data.

Define Synonym.

(7 Times)

Ans: It is a type of problem that exists in relation. Synonym is created when two different names are used for the same name or attribute. The name of attribute must be same if it exist in two or more relations.

5. Define 3rd Normal form. OR When is a relation in 3NF? (4 Times)

Ans: A relation is said to be in 3rd normal form if it is in 2Nf and no transitive dependency exists. The transitive dependency is an important factor in normalization. A relation will not said to be in 3NF if the value of non-key attribute can be obtained by knowing the value of another non-key attribute.

6. What do you mean by entity integrity?

Ans: It is constraint on a primary key value. It is stated that any attribute of primary key cannot contains null value. If primary key contains null value then it is not possible to uniquely define the tuple or record assures that it should be easy to identify each entity in database.

7. What is homonym?

(3 Times)

Ans: It is a type of problem that exists in relation. It is created when same name is use

for two different attributes. i.e.

Customer

supplier

Company name

company name

8. Define the term redundancy.

Ans: Redundancy means duplication of data in multiple files. This type of proble usually occurs in relations. It is created when same type of information unnecessarily stored in two different ways or forms.

Example:

EMPLOYEE

Date of birth

Age

2017

9. How referential integrity can be achieved?

(2 Times)

Ans. It is constraint on a foreign key value. It states that if a foreign key exists in a relation then foreign key value must match the primary key value in parent relation.

It is achieved by connecting two relations by specifying relationships betwee them. When two relations are connected, one relation is called parent while other relation is called dependent relation.

10. How second normal form is achieved? OR When a relation in second Norm form? (2 Times)

Ans. It is achieved when:

- i) The primary key contains only one attribute.
- ii) Relation should be in first normal form.
- Every non-key attribute is functionally dependent on the full set of primakey attributes.
- 11. Define partial dependency?

Ans. A type of dependency in which one or more non-key attributes are functional dependent on a part of primary key is called partial dependency.

12. Define transitive dependency?

(2 Times)

Ans. It is a type of a functional dependency between two or more non-key attributes exist if non-key attribute depends on other non-key attribute.

0.00 write two types of anomalies?

Insertion anomaly Ans. 1)

Suppose a new course "Programming" is to be inserted in the relation. The new course title can not be inserted without inserting Emp_ID as primary key consists of Emp_ID and course title.

Deletion anomaly II)

suppose the record of Emp_ID 140 is to be deleted. The data of MS-Excel will also be deleted along with that employee.

Define repeating group? 14.

The term "repeating group" has also come to be used informally and imprecisely Ans. by database designers to mean a repeating set of columns, meaning a collection of colours containing similar kinds of values in a table. This is different to its original meaning in relation to 1NF.

Define mutual exclusiveness of data? 15.

The data that does not have overlapping information is known as mutually MIS. exclusive data. It creates problem in cases where values are "Yes/No".

2018

What is a functional dependency?

(2 Times)

It is a relationship between two attributes. It states that if the value of one 16. attribute is known, it is possible to obtain the value of another attribute e.g Roll Ans. No. Marks.

Differentiate between full functional dependency and transitive dependency. 17.

Ans.

	Transitive dependency
Functional dependency	dependency is a type of
It is the relationship between two	Transitive dependency is a type of functional dependency in which a non-
it is possible to	non-key attribute.

It is a type of problem in the relations that occurs with the attributes whose values 18. are specified as Yes or No. Sometimes two or more such attributes cannot be true Ans. or false at the same time for one entity.

OBJECTIVES (MCQ'S) OF CHAPTER-5 IN ALL PUNJAB BOARDS 2011-2021

1. Which of the following is not a d	atabase object?	(3 Times)
(A) table (B) query	(C) form	(D) MS. Word
2 is used to retriev	e data from one or m	ore tables:
(A) macro (B) table	(C) query	(D) form
3. A database consists of various co	mnonents called	(2 Times)
(A) Tools (B) Properties	/C) Entities	(D) Objects
4. Which of the following chiest of	detabase is used to us	(D) Objects
4. Which of the following object of (A) Oueries (B) form	uatabase is used to re	trieve data from databas
(A) Queries (B) form	(C) Reports	(D) Tables
5. The output of the query is in the	torm of a:	
(A) Table (B) Form	(C) Report	(D) Query
6. Which object is used to retrieve way?		and present in formatte
(A) Report (B) Form	(C) Table	(D) Query
/ Microsoft Access saves the datab	ase with the extension	n: (3 Times)
(B) .msdb	(C) madh	(D) None
8. A report is complete set of	field.	(b) None
(A) Distinct (B) Related	(C) Designed	(D) All
In MS Access table contains:	(c) Designed	(D) All
(A) Records but no fields	(B) Fields but no re	intu-
(C) Both records and fields	(D) None of the	,
10. Which option in MS Access is use	d to croate a new alat	
(A) Access template (B) Blank Database	(C) Evicting Detail	abase from scratch?
()	(c) Existing Databas	se (D) New Folder
11 When in the Life College	2017	
11. What is the default field size of a	Text data-type in MS-A	Access (F.Aimed
teut key is used to one	n an existing database	in MS Assault
(a) CTRL+N (b) CTRL+S	(c) .CTRL + O	(d) CTD: (5 times)
(a) Due sinallest meaningful unit of da	ata in a database is sal	(d) CTRL+Z
		(5 (111105)
and type is the default det	a type in Ms Assa	(d) Field
To. Which wildcard replaces one at	octor only	(d) information
(b) ?		
	(c) :	(d) !
	2018	
16. The extension of image file is:	2010	
(h) do-		
17. The example of nonular page	(c) .bmp	(4)
(a) MS-Word (b) MS-Access	which is a state of	(d) .ppt
147 WIS-ACCESS	(c) MS-Excel	(1)
	William Co.	(d) MS-Power Point
18. Which of the following:	2019	
Tollowing is correct -	Sociation	
(a) file=column (b) record=row	(c) field=row	The state of the state of the state of

19. The maximum number of tables in a database are: (a) 01 (b) 02 03 (d) Many It is simple to create database using. 20. (b) common standards (c) easier programming (d) wizard (a) query The output of a database application is: 21. (d) Macros (c) Report (b) Query (a) Form **ANSWERS** 10 11 6 7 8 3 4 5 . 2 1 D B C B Α A D A A D C 21 20 18 19 17 15 13 14 16 12 C D B D C CA В D SHORT QUESTIONS OF CHAPTER-5 IN ALL PUNJAB BOARDS 2011-2021 (2 Times) List different buttons available on Access database window. 1. Ans: Different buttons in the database window are as follows: **Tables** Queries **Forms** Reports **Pages** Macros modules Define IDE. OR What do you mean by IDE? (3 Times) 2. IDE stands for integrated development environment. It is a collection of facilities Ans: provided to the users. It is used to create database and database applications. An IDE simplifies the tasks of creating and using database. What is extension of Database file in MS Access? 3. The extension of database file in MS access is .mdb. Ans: 2016 (2 Times) Write down two database objects in MS. Access. 4. Following are the database objects in MS. Access: Ans: 4. Reports 3. Forms 2. Query 1. Tables What is Microsoft Access? 5. MS access is one of the most popular and powerful relational database management Ans: systems. It provides various built in features to the users. These features help the user to create database and view information. It can store large amount of data and also process it. (4 Times) What is Data Base Wizard? Database wizard is a set of steps that guides the users to create a database easily. 6. It includes choosing a template, selecting fields, making customizations, adding Ans: pictures and databases.

OBJECTIVES (MCQ'S) OF CHAPTER-6 IN ALL PUNJAB BOARDS 2011-2019

1. To find a name that st	arts with S, the cr	iteria is written as:	
(A) S#? (B) S#	(C)	March 1	D) 5*
2. The graphical query to		,	(4 Times)
(A) query tool (B) desi	gn grid (C)	query form (D)design form
3. The output of a query	is in the form of a	:	(2 Times)
(A) table (B) form	n (C)	report (D)query
4. Find and replace com	mand is found in:		(4 Times)
(A) edit menu (B) file	e menu (C)	Tool ((D) view menu
5. A logical grouping of	:haracter is a :		
(A) file (B) re	cord (C)	field ((D) all of these
6 table view	ws are available in	MS-Access:	(2 Times)
(A) 4 (B)	3 (C)	2	(D)1
7. The data in table is en	itered in:		(4 Times)
(A) design view (B) nor	mal view (C)	data sheet view	(D)layout view
Insert command is us	ed to insert:		
(A) a new table (B) a ne	w record (C)	a view	(D)dependencies
What symbol indicate	s that you are edi		(2 Times)
• •	k arrow (C)		(D) asterisk
10. In relational database	e, a single piece of		
(A) field (B) rec	ord (C)	entity ((D) attribute
11. Which data type is	default type in A		
(A) Memo (B) nui	mber (C)	text ((D) Auto number
12. A collection of related	d fields is:		(2 Times)
(A) file (B) dat			(D) record
13. Which key is used to	nove from field to	field in table wind	ow in datasheet view.
(A) Tab (B) Esc		Enter (
14. Which of the following		ve data from datab	ase and represent it to
the user in a formatte			(5)
(A) form (B) que	ry (C)		(D) report
15. A request for informa		ase in database ter	minology is called:
(A) Report (B) Lett		Table	(D) Query
16. A row of relation is ca	101-	e de	(D) Deletion
(A) Attribute (B) Ent	ity (C)	Tuple	(D) Relation
	201	7	
	20.		
17. It makes very simple	to create a databa	se:	(6 times)
(a) sample database (b) wiz	ard (c) commo	n standards (d)eas	ier programming
18. Which object is the o	utput of a databas	e application?	(6 times)
(a) Form (b) Qu	ery (c)	Table	(d) Report
19. Which view is used to			e? (6 times)
	itasheet view (c)		(d) Edit view
20. Storage and retrieval	of data is related	to:	(6 times)
(a) data capturing (b) dat	a manipulation (c)	managing output r	result (d) analysis

21.	How find f	our character n	iame that	starts w	/ith H	, the c	riteria		(7 tim	A. 100 May 1
(a) H*	a	(b) H?4		(c) H?	??		(d) H#	#	
	Managara and		F 1517	2018						
22.	In relation	al database, a t	able is als	o called	:	*	M -			
(a) tup) rela	tion	
		able that is con					calle	d:		
		(b) table					(d		ort	
24.	To find all	names start wi	th M from	studen	t tabl	e, the	criter	la is:	"\/*"	
(a) Like	Mhich dat	(b) Like "M	-" 	(c) Like	" V #'	-t con	cists (of onl	v nun	hers t
25.	used in cal	a type can be u	sea to ae	rine a fie	ela tn	at con	31313	, 0,,,		100,37
(a) Dat		(b) Memo		(c) Nun	ahar		(d) Text		
		num length of t					-	1;		#1 ·
		(b) 250 cha						255	chara	cters
(4)	\$80 F.DV	(2) 230 Cita	ructers	(0) 133		ų,				
				2019		A 10				
	ran.					I 4	200	blo2	y 21 of 1	
		he following M				petw				
(a) Edit		(b) File			S		(a) View		
		a type is the de					/-11			h
(a) me	mo .	(b) number		(c) text			(a	auto	num	ber
			ANS	SWERS						
	1 2	3 4 5	6 7	8	9	10	11	12	13	14
	D C	A A C	·C	В	В	Α	С	D	Α	В
	15 16	17 18 19	20 2:	22	23	24	25	26	27	28
	D C	B D D	В	D	С	D	C	D	D	С
		SHORT Q	JESTIO	NS O	ECL	IVD.	LED	6		
1875	Walter O									4
		IN ALL PU	MIAB B	OARE	S 2	011	-202	21		
1.	Define To	kt Data Type in I		The state of the s				SECOND SECOND		
Ans:	Text data	type is used to	store alph	i. obotic				. 1 .		11
	store up to	type is used to so 255 characters	The defa	abetic, n	umbe	ers an	d spec	cial ch	iaract	ers. It
2.	Differentia	ate between Fie	ld and Ro	ord	n or i	ext d	ata is	50 ch	aracte	rs.
Ans:	Field: A fie	eld is a combinat	ion of one	ormor	rola	اماما	,			
	annie on dan	id. Field 13 file SI	mallest un	it of dat	a tha	tea ch	aracte	ers. It	repre	sents
	is also kno	wn as column.	,	it or dat	a tiia	c can i	be acc	essec	by tr	ie use
			. Ali							
			Im	ran	1					
, i	44		Kamr	an						
	a ,	ger installer de	Fai	sal						
	Record: Co	ollection of relat	ed fields r	epresen	ted a	s a sin	gle ur	nit is a	halle	record
	THE PARTY NAMED IN PARTY OF THE	tapic of to	ow. i.e.			- 4 5111	Die ui	11 15 (aneu	I ECO!
	ALI	MSc		lcs2016	A		56%			7
3.	Name two	table views ava	ilable in N	1S-ACCE	SS.			12	Time	(2)
Ans:	lable view	is a way of loo	king at th	e table.	MS A	ccess	provi	c) des ti	vo tak	ale vie
	that are:	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					,		tal	J, L

- design view i.
- datasheet view. ii.
- Define the term cardinality of relation. 4.

(3 Times)

Total number of rows or record in a relation/table is called cardinality of a relation. The cardinality of a table changes as new records are added or existing records are deleted. A table with sixty records has a cardinality of 60.

Define the term table in database. 5.

(2 Times)

Table is the most important object of a database. It is the combination of rows and columns. It is the central concept in relational database. All data in a Ans: relational database is stored in tables. Table is known as relation.

What is field? 6.

(3 Times)

A field is a combination of one or more related characters. It represents one unit of data. Field is the smallest unit of data that can be accessed by the user. It is Ans: also known as attribute i.e.

Name
lmran
Kamran
Ali

Reports are the output of a database application. Report is an important object of 7. database management system. The report can be displayed on the screen, on the Ans: printer or on the disk. The reports may contain graphs and charts.

Write two characteristics of tables. 8.

i. Each cell of the table contains only one value. Ans:

ii. Each column has a distinct name, which is the name of the attribute (field) (3 Times) it represents.

How does a database differ from a table? 9.

Ans:

	Table
The Database is the main structure that holds one or more tables.	A table is an object in the database that is used to store data about a particular entity.

What is the uses of query in database? 10.

i. Sort the records in a specific order. Ans:

ii. Extract records according to the specified criteria.

iii. Calculate fields and summarize data.

iv. Choose the fields to display in the result.

2016

What is Attribute? Give an example. 11.

The characteristics of entity are known as attribute. It is the name of the field in a Ans: relation. An entity may have many attributes

Example:

Attributes of teacher are name, gender, telephone etc.

What is the use of Input Mask? 12.

An input mask controls the value of record and sets it in specific format. It is Ans: similar to the FORMAT property but it displays the format on datasheet before the data is entered.

Example:

Phone number filed can be formatted with input mask to accept 10 digits as "(555) 123 456."

What is the use of field size property? 13.

Field size is used to set the number of characters required in text and number Ans: field. The default field size for the text type is 50 characters. The field size can be limited to certain number of characters if value in field is small.

Define the term sorting. 14.

The process of arranging data or records in sequence is known as sorting. The data Ans: can be stored in two ways i.e.

1. Ascending sort

2. Descending sort

What is filter? Explain its two types available in MS-Access. 15.

Filters are used to extract records that match a set of criteria. Filters are used with opened Ans: tables.

Different types of filter are:

Filter by form

It is useful if the table is large and it is difficult for the user to find the record that contains the value according to which the filter is to be applied.

Filter by selection.

Its feature is used to filter records that contains identical data values in a given field.

2017

Write a query to display all record from employee table? 16.

Ans. > Select * from emp;

17. List any field properties?

Ans. i) Field size ii) Format iii) Indexes

iv) Default value.

What is datasheet view in Ms-access? 18.

The table view that is used to enter, delete or modify data in a table is called data Ans. sheet view. The table in this view is displayed in rows and columns.

How datasheet view is different from table design view? 19.

Ans.

Datasheet view	Design view
form of rows and columns.	Design view is used to design the structure of a table. It is used to specify name, data type, and description of fields.

2018

What is the use of SELECT query? 20.

A SELECT query is used to extract data from table based on specified criteria. It Ans. may retrieve data from one or more tables. It displays result in datasheet where the records can be updated. It can be used to group records and calculate sums, counts, averages and other types of totals.

- List three methods to create table in MS Access. 21.
- i. Create table in design view. Ans.
 - ii. Create table by using wizard.
 - iii. Create table by entering data.
- Discuss the use of design view in MS Access. 22.
- It is used to specify name, data types and description of fields. Primary key is also Ans. specified in this view. The structure of an existing table can also be changed in design view.
- Why is it important to specify the data type and size of the field? 23.
- Each field must be assigned a particular data. The data type specifies the type of Ans. data that can be stored in the field. Field size is used to set the number of characters required in text or number field. It saves disk space and prevent entry errors.
- What is the use of wild cards? 24.

(2 Times)

- Wild cards are special symbols that are used in queries to search data. Some Ans. important wild cards are:
 - ?: It takes the place of a single letter. i.
 - *: It represents the number of characters ii.
 - "a*": All words beginning with a. iii.

2019

- How is criteria specified in a query? 25.
- Criteria are specified with the help of wild cards. Wild cards are special symbols Ans: that are used to extract particular records form the database.
- Define referential integrity? 26.
- Referential integrity is a rule that preserves the defined relationship between the Ans: tables when records are added or deleted.
- Define the term degree of relation? 27.
- The number of fields in a relation is called degree of relation. The degree of a table is usually not changing once the table has been created. A table with the five fields Ans: has a degree of 5.
- List out different data types available in MS-Access? 28.
- MS-Access provides the data types of text, Memo, Number, Date/Time, currency, Ans: AutoNumber and Yes/No.

LONG QUESTIONS OF CHAPTER-6 IN ALL PUNJAB BOARDS 2011-2021

Explain 8 different data types available in MS. Access. 1.

(3 Times)

What is filter? Explain its two types available in MS. Access. 2.

(4 Times)

- 3.
- What is table? Write down six characteristics of table. How new database is created? Explain the procedure of creating table using wizard. 4.

OBJECTIVES (MCQ'S) OF CHAPTER-7 IN ALL PUNJAB BOARDS 2011-2021

 A sub form can be created by t 	ising:				· Jan			
(A) drag and drop method			e form		d			
(C) sub form wizard		(D) all	of the	se				
2. How many are the layout of re	port?							
(A) 2 (B) 3		(C) 4			(D)	5		
3. A form within another form is o	alled:	1				(2	Times)	
(A) sub-form (B) main form		(C) jus	tified	1	(D) I	norma		
4. Forms are designed for: (2		•			,			
(A) input data (B) manipulate d	lata	(C) acc	epting	change	e (D)	all of t	hese	
5. How many form layouts are p	rovid	led by	MS-Ac	cess?			Times)	
(A) 2 (B) 4		(C) 6		:	(D)	8		,
6. Which of the following is used	to dis	play ye	es/no v	alues?				
(A) Checkbox (B) Option butto	n	(C) Bo	th a an	d b		None		
7. Which Auto form displays one	recor	d at a t	ime?				, , ,	
(A) Tabular (B) columnar		(C) Dat	asheet		(D) J	ustifie	d	
Which view can be used to enter	er or m	odify o	lata in	the un	derlyin	g table	2:	
(A) Form view		(B) Tab						
(C) Form Design view		(D)Nev		view				
9. All of the following are form la	youts	EXCEP	T:					
(A) Tabular (B) Columnar		(C) Jus	tified		(D) F	Relatio	nship	
10. A report may be base on:								
(A) A table but not a query					a table			
(C) Both a table and query		(D) No						
11. Which of the following is NOT			-					
(A) Display data		B) Edit						
C) Output of database application	. (D) Pri	nt data					
12. Which of the following options	is use	d for e	diting	forms i	in MS A	Access	?	
(B) Snap to Grid	() 	C) Res	izing ol	ojects	(D) A	II.		
A) List box (B) Combo box	d to di	splay	a list o	fitem	s in for	ms:	, J.,	
A) List box (B) Combo box	(C) Bot	h a and	b	(D) N	leither	a nor	b
	2	017						
and the from layout one								
14. Which from layout one record (a) tabular (b) columnar					(2 tim	ies)		
		c) data	sheet		(d) ju	stified		
3 1		VERS						
	. 7	8	9	10	11'	12	13	14
D B A D B C	В	Α	D	(D			-

SHORT QUESTIONS OF CHAPTER-7 **IN ALL PUNJAB BOARDS 2011-2021**

Write the uses of Reports. 1.

(4 Times)

Ans:

- I. Reports present the required information in formatted style.
- ii. Reports provide flexibility to present the same data in different ways.
- iii. Reports can display information with graphics and charts etc.

What is the difference between form and Report? 2.

(5 Times)

Ans:

Form	Report
The main difference between from Form and Report is that form is used to enter data into database visually by using textboxes and buttons etc.	retrieve data from tables in a

What is the concept of sub-form. 3.

A sub-form is a form that is placed in a parent form. The parent form is called the Ans: main form. Sub-forms particularly useful to display data from tables and queries with one-to-many relationships.

Define form. 4.

A window that consist of visual components is called form. Forms are used to Ans: interact with databases through graphical user interface. It consists of text boxes, labels and buttons etc.

Name two layouts of forms in MS Access. 5.

Ans:

i. Columnar form

ii. Justified form

Describe sub-form. OR State the purpose of sub form? 6.

(3 Times)

A sub-form is a form that is placed in a parent form. The parent form is called the Ans: main form. Sub forms are particularly useful to display data from tables and queries with one-to-many relationships.

2016

Differentiate between Combo box and List box. 7.

(2 Times)

Ans:

	List box
Combo box	
Combo box is also used to display a list	list box is used to display a list of items in
of itame : N. f D. t. t. accuning	forms The user can select
loce and the little of	itam from the available restrict
toxt have and a dead list The user	can select one of march
can also easily select the desired item	occupies specified space on the form
from combo box.	

Define radio button. Describe its purpose also?

(6 Times)

Radio button is also known as option button. It is used to display yes/no and true/false or on/off option to the users. It is used when user has to select only one option from many options. A dot sign is appeared when user select it.

Define combo box.

Combo box is also used to display a list of items in the forms. But it occupies less space than the forms. The user can also space than list box. It consists of text box and a drop down list. The user can also easily select the easily select the desired item from combo box.

10. Write two advantages of form.

(2 Times)

Ans: 1: Easier to use.

2. User friendly.

3. Time saving

11. List any two methods of creating sub-forms.

Ans: 1. Creating form and sub form at once.

2. Creating sub form using sub form wizard

2017

12. What do you know about columnar form?

Ans. Columnar form is used to display one record at a time. It displays text boxes and tables. The text boxes represent the fields of table or query. The label represent the names of field.

13. Why is report generator used to database systems?

Ans. Report generator is used to generate a report. Reports are the output of database application. The user can generate different types of reports by manipulating the database.

14. What are check boxes?

(3 Times)

Ans. Check box is used to display Yes/no, true/false, or on/off options to the user. It is used when user can select one or multiple options at the same time

2018

15. List two advantages of report.

Ans. i. Reports present the required information in formatted style.

ii. Reports can display information with graphics and charts.

16. Write any two uses of Forms.

Ans. i. Form is used to manipulate database easily

ii. It can be used to add data in the database, retrieve, view and search data from the database.

17. Write the use of datasheer form.

Ans. It is used to display many records at one time. It displays records in datasheet view of Access. Each row in this form displays one record of the table.

18. Why is a list box used in Forms?

Ans. List box is used to display a list of items in forms. The user can select the desired item from the available items. The user can select one or multiple items.

19. Distinguish between form and subform.

Ans.

Form

subform

A window that consists of visual components is called form. Forms are used to interact with databases through graphical user interface.

A subform is a form that is placed in parent form. Subforms are particularly useful to display data from tables and queries with one-to-many relationship.

2019

20. Which control is used to execute commands in MS-Access forms?

Ans: A command button is used to execute different commands by clicking on it. The button.

21. What is switchboard?

A switchboard is a form that is used to navigate database and perform different tasks in database application. It contains user-defined commands with buttons, labels, Images or hyperlinks. These commands invoke different actions to carry out various tasks such as opening forms, running queries or printing reports etc.

OBJECTIVES (MCQ'S) OF CHAPTER-8 IN ALL PUNJAB BOARDS 2011-2021

 An IDE consists of: 		
(A) text editor (B) compiler (C	C) debugger	
The extension of C source program is:		(3 Times)
(A) .b (B) .c (I	C) .obj	(D).exe
Which of the following represents the	preprocessor directi	ve?
(A) void main (void) (B) {}	C) # include <stdio.h:< td=""><td>> (D)include<std.h></std.h></td></stdio.h:<>	> (D)include <std.h></std.h>
4. C statements end with:		
(A) period (B) comma (C) semi-colon	(D)question mark
5 exe file is produced by the		(5 Times)
(A) linker (B) loader (C) compiler	(D) interpreter
6. Void occupy how many bytes in men	nory	
(A) zero (B) one	(C) two	(D) four
A programs' syntax error is detected	by	
(A) Linker (B) compiler	(C) loader	(D) debugger
8. The lowest level of programming lang	guage is:	
(A) Assembly language (B) Java	(C)Pascal	(D) C++
9. key is used to save a file	e in Turbo C++.	
(A) D1 (B) F2	(C) F5	(D) -F7
10. Who developed C:		
(A) Von-Neumann (B) Al-Khuwarizmi	(C) Charles Babbage	(D)Dennis Ritchie
11. Turbo C++ can compile:		, ,
(A) C programs only	(B) C and C++ progr	ams
(C) Turbo C programs only	DiTurbo C++ progra	ams
12. Processor directives are command f	Qr:	
(A) Microprocessor (B) Language Processor	or (Q) Chrenrocess	or (D)Loador
rieader mes in C contain;	(a) a pieprocesso	or (D)LUadel
(A) Compiler commands	(B)Library functions	
	(D) Operators for file	
14. Which of the following syntax is use	to include header	EI-D
v. y "include chame of header file>	(R) # include nearer	file?
(C) Both a or b	(B) # include name	of he header file
15. Stdio.h is part of:	(D) None of these	
(A) comment section (B)C standard library 16. The name of header file in the section (B)C standard library	101 0 11	
16. The name of header file is written b	(C) Compiler	(D) main function
(A) [] (B) ()		
17. Debug is the process of	(C)<>	(D) <<>>
(A) Creating bugs in program (C) Identify a		
(C) Identifying Errors	(B) Identifying and r	emoving error
Thuisian L	(D) Removing Error	'S
18. Division by zero is an example of: (A) compile error (B) Run-time error Which of the following errors are to		(2 Times)
19. (B) Run-time error	(C) Logic error	(D) None
19. Which of the following errors are N	IOT detected by com	piler?
(A) Syntax error (B)Logical error	(C) both a and b	(D) None
Too and		
	2017	
20	NGUAGE	
	NGUAGE	(8 times)
(a) 1962 (b) 1969	(c) 1970	(d) 1972
(5) 1303	(0) 13,0	

C-LANGUAGE (8 times) The statement written by programmer is called: 21. (d) Object code (a) Source code (b) exe code (c) Syntax Graphical representation of a program is called: (d) relationship (a) flow chart (c) Identifier (b) algorithm The process of converting source code into object code is known as: 23. (d) Saving (a) Compiling (c) Linking (b) Executing A set of rules that must be followed by programmer to develop program is 24. called:-(d) Debug (a) Syntax (b) Preprocessor (c) Bug 2018 (2 Times) 25. The output of the compiler is: (d) source code (c) object code (a) library code (b) linked code The Data type in C that can handle Fractional values is called: 26. (d) int (a) long (c) float (b) char 27. stdio stands for (b) simple input output (a) standard input output (d) start input output (c) string input output The target code produced by the compiler is: 28. (d) linked code (c) library code (b) source code (a) object code The output of the compiler is called: 29. (c) Linked code (b) Source code (d) Object code (a) Library code The extension of header file is: 30. (c) .hf (b) .txt (d) .h (a).c 2019 C is a: 31. (a) High Level language (b) Low level language (d) Machine Language Assembly language (c) Which of the following language provided the basis for the development of C? 32. (b) c++ . (c) Pascal (a) (d) Cobol The programmer usually enters source code into a computer using: 33. (b) Text editor Compiler (a) (c) Debugger (d) (Linker

		,		ANS	WERS				
1	2	3	4	5	6	7	8	0	10
D	В	С	С	A	Δ	B	Δ.	5	10
11	12	13	14	15	16	47	A	В	D
R	(В	1	13	10	17	18	19	20
D		D	A	В	C	В	B	D	D
21	22	23	24	25	20			D	U
Α	A	Λ		23	26	27	28	29	30
		Α.	A	C	C	A	Λ	0	0
31	32	33			774		_ ^	U	U
Α	Α	В							

SHORT QUESTIONS OF CHAPTER-8 **IN ALL PUNJAB BOARDS 2011-2021**

Define Programming Language. 1.

A set of words and symbols that are used to write programs is called Ans: programming language. The programming language are used to write computer programs. A programming language is a means of communication between a user and computer. i.e. C++, Java etc.

Who is Programmer?

Ans: A person who develops a computer program is called programmer. The programmer develops programs to instruct the computer how to process data and convert it into information. Programmer uses programming language or tools to write programs.

Differentiate between Syntax Error and Logical Error.

3. Ans:

Syntax Error	Logical Error					
occurs when an invalid statement is written in program. Syntax errors are detected by compiler. A program containing syntax errors cannot be compiled successfully.	A type of error that occurs due to poor logic of the programmer is known as logical error. A statement with logical error is executed and may produce unexpected and wrong results in the program. Typing a wrong formula to calculate the results is an example of logic error.					

What do you mean by case sensitive in C-language? 4.

Case sensitivity means upper case and lower case alphabets/letter can be used for Ans: different propose. C is a case sensitive language it can differentiate uppercase and lowercase words. All keywords are written in lowercase.

Write two reasons why it would be preferable to write a program in C rather 5. than machine language.

The two reasons to write a program in C rather than machine language are as Ans: follows:

i. C language based on English like syntax and machine language based on 0,1 it becomes very difficult to write program in machine language.

ii. C language is portable its means a program written in C language can be run on different types of computer.

State the purpose of defining preprocessor directive.

Preprocessor directives are the first line of the C program. Define directives is used to declare constant that remains same during execution of the program.

What is an assembler?

Ans: An assembler?

An assembler is translating program that translates the instruction of an assembly language into machine language. (7 Times)

The computer program in machine like language or in a low-level language is called Define object code. Ans: called object program or object code. An object program can be easily understandable by the computer. It runs more efficiently on the computer system.

Distinguish between low level and high level language. 9.

(3 Times)

Ans:

Low level	High level					
low-level language is difficult. Low-level languages provide more hardware support. The programs written in low-level language are faster in execution.	High-level languages provide lest					

34

Define preprocessor directive. 10.

(2 Times)

The preprocessor directives are commands that give instructions to Ans: preprocessor. Preprocessor directives start with hash # and the keyword include or define. These directives are written at the start of program.

What is syntax error? Give an example. 11.

Syntax error is a type of error that occurs when an invalid statement is writte Ans: in program. Syntax errors are detected by compiler. A program containing synt errors cannot be compiled successfully. Typing 'forr' instead of 'for' is an examp of syntax error.

12. Define linking. (5 Times)

Ans: Linking is the process in which the object file produced by the compiler is linke to many other library files. The library files must be linked with the object fi before execution of the program.

13. What is header file? (5 Times)

The header files contain the declarations or information of standard libra Ans: functions. These functions are called in the main body of the program to perfor different tasks. The extension of a header file is ".h".

14. Define the terms Bug and Debug.

Ans: An error in a computer program is known as bug. The programmer can make different errors while writing programs. The errors must be removed from the program before it can be compiled and executed. The process of finding an removing bugs from a program is called debugging.

15. What do you mean by Delimiters?

Ans: The statements of the program are written in curly braces. The curly brace { called opening brace and } is called closing brace. The braces are also known a delimiters. These statements inside these braces are collectively known as the body of a program.

16. Give an example of Preprocessor Directive.

Ans: The preprocessor directives are commands that give instructions to preprocessor. Preprocessor directives start with hash # and the keyword includ or define. These directives are written at the start of program. Example are (ii) # define

17. Why is C known as strongly typed language?

C is strongly typed language. It means that a variable must always be declared before it can be used in a program. The compiler gives an error if an undeclare variable is used in a program.

2016

18. Define source code.

Ans: A program written in a high level language is called source code. It is also called source program. It cannot be executed by the computer directly. Language processor is required to convert it into object code.

19. Define program.

(2 Times)

Ans: A well-defined set of instruction given to computer is called computer program. I is written in a programming language. Computer always follows the instruction! written in the program. A person who develops the program is known at programmer.

Define High Level Language. 20.

(3 Times)

Ans: A type of language that is close to human language and far away from computer is called high level language. The instructions in these languages are similar to English language such as input and print etc. Computer cannot execute high level language directly. Language processor is required to convert them to object code.

How a source code is different than an object code?

13 Timesi

Object code Source code The computer program in machine like A program written in a high level language or in a low-level language is language is called source code. called object program or object code. It is also called source program. It An object program can be easily cannot be executed by the computer understandable by the computer. It directly. Language processor is required to runs more efficiently on the computer convert it into object code. system.

List four advantages of C-Language. 22.

1. Convenient language Ans:

- 2. Well-structured language
- 3. Machine independence
- 4. Small language

What do you mean by bug? 23.

An error In a computer program or software is known as a bug. A program A program cannot make different errors while typing or writing a program. Ans: compile if it contains any bug. (2 Times)

List any four commonly used High Level Languages. 24.

C++, Java, Pascal, Basic, Cobol. Ans:

Why the Source Code cannot be executed directly?

Computer can only understand binary or machine language. But high level 25. language cannot understand by the computer. So to run a source code on Ans: computer we need a language processor to convert it into machine language. Then it becomes understandable by computer

Differentiate between Preprocessor directives and header file. 26.

Ans:

21.

Ans:

	Header file
Preprocessor directives	Header files are the collection of
instructions given to the compiler before execution of actual program. It is also known as compiler directive. It is proposed by a program called	standard library functions to perform different tasks. Each header file has specific purpose. Many header files
preprocessor.	1

Name two main categories of programming languages. 27.

1. High level language Ans:

2. low level language

Ans: Runtime errors occur during the time of the execution of the program, it occurs when a statement directs the computer to execute an illegal operation such as a number dividing by zero.

2017

In unstructured programming language, the entire logic of the program is implemented in 29. implemented in a single module or function. The program written in this language is error proper differences Ans.

is error prone, difficult to understand, modify and debug. 30.

Ans.

It is a low level language. It is one step higher than machine language. In assembly language instructions are step higher than machine language instruction. language instructions are replaced with English like words know as mnemonics.

Write down preprocessor Math.h 31. # include <math.h> Ans. Differentiate between machine and assembly language? 32. **Assembly Language** Machine Language Ans. 1) It is one step higher i) The type of language in which than machine language. instructions are written in binary form is called machine language. ii) Translator is required for this language iii) It is slower than machine. ii) It is directly understood by computer. iv) It is not machine dependent. iii) It is very fast. iv) It is machine dependent. (2 Times) What is meant by Structured Program Language? 33. In structured programming language the entire logic of the program is divided in Ans. a number of smaller modules or functions. Each module is a piece of code that implement a specific functions. What is meant by comments? Also give an example? 34. Comments are the statements that are not executed by compiler. They are of two types. Ans. i) Multi line comments *....*/ ii) Single line. \\..... \\ I love C++. i-e 2018 35. Why does machine language programs execute faster? A program written in machine language can be executed very fast by compute Ans: because computer understands it directly and it does not need any translator to understand this language. What is the use of main () function in C. 36. (2 Times) The main () function is the place where execution of a C program starts. When the Ans: program is executed, the control enters main () function and starts executing it statements. What is meant by language processor? 37. A language processor or translator is a type of system software that convert programs written in high level language into machine language. Every compute language has its own translator. Why the logical error is the most difficult error to find? 38. The logical error is the most difficult error because it cannot be detected by the Ans: compiler. It does not crash the programs. The user needs to review the whole program to find logical error. Enlist logical operators. 39. AND operator (& &) i. Ans: ii. OR operator (II).

iv.

NOT operator (I)

A MICK COMPLIES SHIPS THERE erpreter. OR What is complian? (2 times) An interpretar is a program that conservis DOM: ALADADA. one statement of a program into machine language at one time it and executes a statement being translating the next statement of the source t program with additional library files is known DASKIAN. ler. The linker generates error message if the e is created with exe extension if the process of poor logic of the programmer is known as errors may produce wrong results. 2019 d loader? 0300 states an executable ry is known as loader. e object must be loaded in the ry files many in order to execute it. C-program? ise this header file contains the ich as printf () and scanf () etc. ram to access a library. Each processor directive is used to der file in the program. The dude directive m with examp te and execute a C program? Discuss briefly. ifferent types of Errors in C-Language. (2 Times) eps are taken to prepare a C program for execution? Explain in (2 Times) ferent types of language processor

OBJECTIVES (MCQ'S) OF CHAPTER-9 IN ALL PUNJAB BOARDS 2011-2021

 Which is a numeric data types? 	call substand h	(D)none of these
(A) flanting point (B) integer	(C)both a and b	
 Variable name cannot begin with a 	i(n):	(D)lower-case letter
2. Variable name cannot begin with a (A) number (B) underscore 3. What will be the output of the following (B) 5.55	(C)upper-case (C	555);?
What will be the output of the following.	owing print it izi	(D)5.00
(A) 5,555 (B) 5.55	(C) 5.50	
A TATALON OF THE TOURWINE IS INCLED VOID	Et a cit i cit	(D)both b and c
(A) a 12.3	- Alem value	
a A relational expression is laise, it	then 7000	(D) none of these
5. A relational expression is false, it is (A) zero (B) one Which of the following is a value.	(C) less than zer const	ant?
	IId character	(D) '4'
(A) "a" (B) "b"	(C) "6"	1
7. Which of the following is not char-	acter constant	(D)'5'
(A) A (D) d	(C) '1'	<u>// </u>
e Variables are created in:	ICL BAM	(D)Hard disk
(B) cache	(C) RAM	
9. Relational operators are used to (A) establish a relationship among variable	(a) perform arithme	etic operations
(A) establish a relationship among variable	(D) create relations	hip (n Elman)
(C) compare two values		• • • • • • • • • • • • • • • • • • •
to The symbol " = represents.	(B) assignment opera	itor
i anarator		
(c) equal to operator	tenur the highest preci	ision? (2 Times)
11 Which of the following date	r (C) float	(D) long int
(A) long double (B) unsigned long in All of the following are logical open (B) AND	rators except:	
All of the lollowing on	(2) 00	(1) =
(A) NOT (B) AND Which term describes the kind of V (B) variable name	alues that a variable c	an store
(A) NOT 13. Which term describes the kind of V (A) data type (B) variable name (A) data type (B) variable name cannot	(C) variable type	(D) variable size
(A) data type (B) Variable frame (A) data type 14. Variable and constant name canno (B) Variable frame (B) Variable frame	t have a :	(4 Times)
14. Variable and constant hams	(C) Period	(D) Letter
(A) Number (B) Understore	t have a: (C) Period	
15.	(C) 54	(D) 36
(A) 30 Void occupy how many bytes in me	mory:	(2 Times)
		(D) four
(A) zero The expression p-=q is equivalent t	0:	
17. The expression (B) p=q-1	(C) p=p-q	(D) q=p-q
(A) p=q-p The number of bytes used by long of the number of bytes used by long of the number of the	louble data type is:	
(B) 0	(C) 10	(D) 12
(A) 4		
	2017	
C-18	nguage	(2 Almost)
19. How many bytes the float data type	s take in memory	(3 times)
(0) 3	(c) 4	(d) 8
V tope of oberator that morks with	one operand is called:	(9 times)
(b) Onary operator (c)	rernary operator	(d) Relational operator
21. handulus (h) Decrement		(9 times)
(a)	• •	(d) Increment
A L-R is adulyalant to	IGUAGE	/m +1
(h)	/-\`A-A-B	(3 times)
(a) Which is a valid character constant?	(c) A=A+B	(d) b=b+a
(a) A (b) "Hello"	(a) (c)	(9 times)
(N) HEILO	(c) '6'	(d) =

24.	Cs	tatem	ient en	as with	1:							times	1
(a)	Period	array	eubeci	b) Com	ma		(c) Col	on		(d) S	iemi c	olon; times	1
25.	Float	array	344361	(b) Dou	ulu be:		(c) int			(d)	Real	(111100	
101	W	hich is	a num	eric da		:	(0) 1110				(9	times	(3)
(a)	loating	point		(b) inte			(c) dou	ble		(d) I	ong do	ouble	
(0)		4						100 m m m					
							2018						
	The	e num	ber of	bytes u	sed by	int dat	ta type	in C is	:				
27.	2			b) 4			(c) 6	,,, 0	•	(d)	8		
(a) 28.	Fui	nction	s used	for I/O	are sto	ored in	:						
(a)	stdio.h			(b) con			(c) Ma				inut.h		
			peratio	n is pe	rforme	d by R	elation	al Ope	rators	141	divi	sion	
(a)	compa	irison	i)	o) addi	tion	ماه اه	(c) su	otracti	on	(u)	aivi	31011	
30.	float	IICII IS		ic data o) int	rype w	vitn de	(c) cha			(d)	long		
(a) 31.	float	ich of		llowing	is a va	alid cha			ant:	101			
(a)	а		(b) '@'	, 10 a ve		(c) "c"			(d) =		-
32.		varia		nnot co									
(a) r	umbe	r ,	(1	o) unde	erscore		(c) let				peri		
33.	An	nemor	y locat	ion wi	th som	e data	that ca	an be d					
• •				b) Vari			(c) Na	amed c	onstar	nt (d) Add	ress	
34.					n C?								
(a) 5	peciai v	vora * *bo :	manilum	(b) Key	word	. in ut a la	(c) Cui	word		(d)	First	word	
33. (a)	25 cha	ractor	riaximi	um len b) 255	charac	variap	le nam	le IS:	04000	14	\ EE	hara	****
36.	Wh	ich of	the fo	llowing	tiiaiat te nat	logica	londer	ton	cters	- (u) 55 (charac	ters
(a) 8	&			(b)	5 13 1100	logica	(c)	1011		14) <=		
				· · · · · ·		The Participant of	(-/	-		(4)	,	•	
							2019						
37.	The	مامقده	lele e f										
(a)	Var	iable	ide or	an assi	gnmer	it state							
38.			i) must eti	b) Cons	ines		(C) E)	pressi	on	·(d)	Digit		
(a)	Floa	at	ica cyp	e is the	nost	appro	priate	tor sto	iring a	name	r		
39,			the fo	llowing	anor	tore h	(c) Cl	nar		(d) Lo	ng		
(a)	=		(1	o) +	Sopera	101511	(c) *	est bre	ceden	icer //	1)!		
40.	Wh	ich of	the fo	llowing	opera	itor ha	s the l	nwest	nrecei	dence	2)! - 3		
(a)		* .		o) + 🔼			(c) ==		precei	uence //	d) = =		
41.	The	expre	ession	0% 4 h	as a va	lue ea	ual to			,,	u)		
(a) 42.	7			21 1			1012			(d) 0)		
(a)	The	num	per of	digits a	fter a	decim:	al poin	t is cal	led:	(4)			
43.		······································	68 0	ii kanc	70		[a] D=	aciciar	•	(d) S	cope		
(a)	in C	-langu	Jage, v	ariable	name	(s) ca	nnot b	egin w	ith a (an).			
	ivui	nber	(1) Low	er-case	letter	(c) U	per-ca	ase let	ter (d) Und	erscor	e
	-												
	1	2	3	4	P	Billian Control	SWER	- Inches	9	10	11	12	13
	C	A	В		5	6	7	8	C	В	A	D	Α
	14	15	16	D	A	D	A	C	22	23	24	25	26
	C	В	The second second second	17	18	19	20	21	CONTRACTOR OF STREET	C	D	C	В
	27	28	D	.C	С	С	В	D	C	36	37	38	39
	A	A	29	30	31	32	33	34	35	D	A	c	A
	40	The same of the sa	A	Α	В	D	В	В	С	THE REAL PROPERTY.	-	the past speed to	
	C	41	42	43									

(4 Times)

SHORT QUESTIONS OF CHAPTER-9 IN ALL PUNJAB BOARDS 2011-2021

1. Define Constant.

A constant is a quantity that cannot be changed during program execution, the Ans: are many types of constants. i.e. symbolic, numeric and alphabetic constants. (2 Times)

2. Write any two rules for Naming variable

 Variable may include letters, numbers and underscore (_). Ans: ii. The firs character of variable must be a letter or underscore. The use underscore is not recommended. The variables 9 minute. #home and 2 kg a invalid.

3. Define Expression.

A statement that evaluates to a value is called an expression. An expression give a single value. An expression consists of operators and operands. An operator is symbol that performs some operation. Operand can be constant or variable et An expression may consist of any number of operators and operands.

4. Differentiate between = 'a' and =a.

='a' statement character a is assigned to a variable. Ans:

An in =a ASCII value will be assigned to a variable or a variable value can also assigned to other variable, i.e.

> Int a=5; Int b; b=a:

This will assign the value of a to b which is 5.

What is meant by Associativity of Operators? 5.

The order in which operators of same precedence are evaluated is known: Ans: operator associativity. If an expression contains some operators that have sam precedence level, the expression is evaluated either from left-to-right or right -t

Differentiate between declaring and defining a variable. 6.

Ans:

Ans:

Declaring	Variable
Variable declaration tells the compiler the name of the variable to be used in the program and the type of information stored in it. It does not reserve memory space for variable in the memory.	defined, a memory location is also reserved for the variable. The size of memory location reserved for any location

What is the value of Y after the following code executes: 7. float Y=3.4+SQRT (25.0)

(2 Times)

8.4 Ans:

Give some examples of valid variable names.

in C language there exist some rules to declare a variable. Valid variables are th Ans: names which are according to these rules. The words marks, average grade an

Describe variable declaration.

Specifying the variable names and their data types in the program is called Ans: declaration of variables. It means that all variables must be declared before the are used in the program. The compiler gives an error if an undeclared variable int a; 'int' is a data type and 'a' is the name of a variable.

Define character constant. 10.

A single character or digit or special character written between single quotes Ans: called character constant. It means that the maximum length of characte

maracter. For example 'A', 'I', 'X', 'y', constant.

Trace the error. 11.

Int a= 6

++2;

Printf("%f',a)

3 errors Ans:

int a=6 should terminate with a semicolon ';'. 1.

Printf("%f',a) should also terminate with a semicolon ';'. 2.

Y.d should be used in place of F. 3.

Define comments in C. OR Describe the use of comment in C-language. 12.

Comments are used to increase the readability of the program. Comments are Ans: notes about different lines of code that explain the purpose of the code. The user can insert information notes in the code. It helps in debugging and modifying the program later.

Distinguish between a constant and a variable. 13.

Ans:

Constant	Variable	
A constant is a quantity that can not be changed during programme execution.	A variable is a named memory location or memory cell. The value of variable may be charged during the execution of programme. However, the name of variable cannot be changed.	

What is compound assignment operator? 14.

An assignment statement that assigns a vale to many variables in known as Ans: compound assignment statement. The assignment operator is = is used in these statement.

Define increment decrement operators. 15.

Increment operators: The prefix increment operator is used to decrement the Ans: value of a variable by 1. It is unary operator and works with single variable. In prefix form, the increment operator is written before the variable like ++y.

Decrement operator: The operator that is used to subtract 1 from the value of a variable is called decrement operator. It is represented by - - (double minus sign). It is a unary operator. It is applied to a single variable only. i.e. y--.

16. What is the use of AND operator?

The symbol used for AND operator is (&&). It used to evaluate two conditions. It Ans: produces true if both conditions are true. It produces false result if any one condition is false.

2016

17. Trace the Output int number =6; int x=0;

x=--number;

Print f ("%d",x);

Ans:

Ans:

18.

What happens when arithmetic under flow occurs? The arithmetic underflow occurs when arithmetic calculation is performed on very Ans: small two variables. The result may be too small to be represented in a particular

variable. Thus result may be represented as zero in this situation. 19.

A variable is a named memory location or memory cell. It is used to store program input data. input data and its computational results during execution. The value of a variable may be changed during execution.

```
20.
        Find the errors in the following code:
       #Include<std 10.h>
       void main (void)
       intx,y,z
       Z=x+y+z
Ans:
       3 errors
1.
       stdio.h spell is not correct.
2.
       Int x,y,z should terminated with ';'. i.e. int x,y,z;
       Z=x+y+z should terminated with ';'. z=x+y+z;
3.
                                                                            (2 times)
21.
       identify the errors in the following lines.
       Integer A=2+3:
       float B=5;
       int C=A+B;
Ans:
       1 error
       Integer is not any datatype in C. It should be like this int A=2+3;
                                                                          (2 Times)
22.
       Describe the identifier.
Ans:
       Identifiers are the names used to represent the variables, constants, types
       functions and labels in the program. It is an important feature of all programming
       languages. A good identifier name should be descriptive but meaningful.
23.
       Trace the error in the following Code:
       int x=10 y=15;
       x= x++
       V = ++V;
       print f ("% d % d", x,y);
Ans:
       2 errors
       There should be int x= 10; \% between int y=15 y=15; i.e. int x=10,y=15;
1.
       x=x++ should be terminated with semicolon. i.e. x=x++;
2.
       Predict the output of the following code:
24.
       int number =6:
       ++ number:
       Print f("%d\n",number);
       7. It will be in next line due to use of \n.
Ans:
       Differentiate between string constant and character constant.
25.
                                                                         (3 times)
Ans:
                   String constant
                                                         Character constant
       A set of characters written within a
                                                Any character written within a single
       double quotation is known as string
                                                quotation is known as character
       constant.
                                                constant. i.e. 'a', '$', '=' etc.
              i.e. "Pakistan", "123" etc.
       List any four types of integer data in C-Language.
26.
Ans:
                                                                         (3 times)
       1. int 2. short int
                            3. long int
                                           4. unsigned int.
       Differentiate between implicit and explicit type casting.
27.
Ans:
                                                                         (3 times)
```

	/ tilles/
Implicit casting	The state of the s
implicit casting is north	Explicit casting
arithmetic operations must be of similar types. If types are different then the lower data type operand will automatically convert to high data.	programmer. It is used by using cast operator. The cast operator tells the

Predict the output of the following 18. void main () int x=1; X++; printf ("% d', x); Ans: Define keywords. 29. keyword is a word in c which has predefined meaning and purpose in c language. Ans: The meaning and the purpose of the keyword is defined by the developer of the language that cannot be redefined or changed by the user. What do you mean by assignment operator? 30. (2 Times) The assignment operator = is used in assignment statement to assign a value or Ans: computational result to a variable. The name of the variable is written on the left side of the assignment operator and value is written on the right side. List two types of Identifiers in C. 31. 1. Standard identifiers Ans: 2.User defined identifiers How are Characters Stored? 32. The characters are stored in ASCII code form. ASCII stands for AMERICAN Ans: STANDERD CODE FOR INFORMATION INTERCHANGE. The ASCII code values are used when they are added, subtracted and compared. 2017 33. Why is it important to assign a data type? Ans. Data type tells the compiler, how much space a variable will take in memory and what type of contents it will store. So it necessary to assign data type so that compiler should know about space and content can catch error easily. 34. What is statement terminator? ';' is a statement terminator. It tells the compiler that specified statement has Ans. 35. Write the use of turbo c++? Ans. It is used to create, edit and save programs. It is also used to debug a program. It 36. Name data type use to store use to store real data? Ans. float, double are used to store real data. 37. Write a shortcut key to run. Ans. CTRL+F9 38. Write legal character for identifiers? Ans. Only Alphabets, numbers and underscore can be used as identifier. First letter should be alphabet or underscore. 39. Why does integer overflow occurs? Ans. It occurs when we give addition or multiply large values. That increase in result of the value o the value. So value will increase. Then the maximum range of data type. In this way integer overflowed. Find the Error. void main () int c=7 printf("%d",C: Ans: Statement termination semi colon (;) is missing after int c=7 Closing parenthesis is missing after print ("%d",c;

- Operators are used to perform certain operations on data. For example 41. Ans.
 - arithmetic operators are used to form arithmetic operations.
 - Logical operators are used to specify multiple conditions.
- What is the use of assignment, statement? A statement that assigns a value to a variable is known as assignment statement 42.

The assignment operator (=) is used in assignment statement to assign a value to Ans: variable.

Differentiate between unary and binary operators. 43.

Ans.

Unary operator	Binary operator
A type of operator that works with one operand is called unary operator, some unary operators are	A type of operator that works with two operands is called binary operator. Some binary operators are
-,++, e.g -a; x++;y;	+,-,*,/,% e.g a+b; x.y

List four keywords in Clanguage. 44.

(2 Times)

Ans. (i) if (ii) for

(iii) while

(iv) int

- Write about data type in C. 45.
- The data type spacifies the type of data that can be stored in a variable. It also Ans. tiefines a set of operations on the data. Each data type has a range of values and requires different amount of memory.
- How does cancellation error occur? 46.
- The cancellation error occurs when very large and very small floating numbers are Ans. manipulated. The manipulation may show unexpected result. The larger number may cancel out the smaller number when both numbers are added.
- Describe variable initialization. 47.

(2 Times)

- The process of assigning a value to a variable at the time of declaration is known as Ans. variable initialization. The equal sign = is used to initialize a variable. Variable name is written on left side and the value is written on the right side of equal sign. Syntax: type name_variable = value
- What is garbage value. 48.
- The computer automatically allocates the required memory for the variable when Ans. it is declared. The memory location may already contain some data that is meaningless for the program. This meaningless data is known as garbage value.
- 49. What is the output? printf("%c",67);

Ans.

Find errors of C code. 50.

> int a=10, b=40printf("sum; "a+b)

- Statement terminator; is missing after first statement. Ans. ii.
 - Print is wrong use printf for output. III.
 - Semicolon is missing after print statement.
 - In prinf statement, closing double quotation mark is wrong it should be as printf ("sum=" ,a+b);

```
What is ternary operator?
 51.
       The ternary operator is an operator that takes three arguments. The first
 Ans.
       argument is a comparison argument, the second is the result upon a true
       comparison and the third is the result upon a false comparison.
       Write output of the code.
 52.
       float f = 3.1415;
       printf("%7.2f",f);
 Ans.
       Enlist all relational operations in C.
 53.
              (greater than operator)
 Ans.
              (less than operator)
              (equal to operator)
              (greater than equal to operator)
              (less than equal to operator)
       <=
              (not equal to)
      What is the output of the following code.
54.
      int n=10;
      n%= 2;
      n+=5;
      printf("%d",n);
Ans.
      Find errors in the following code.
55.
      #include<stdio.h>;
      VOID main ()
      printf("Hello c")
Ans.
      (i)
             There should be no semicolon after # include<stdio.h>
             VOID should be written in small letters i.e void.
      There should be semicolon after printf statement.
                                          2019
56.
      Write a statement to declare an integer variable i initialized to 10?
Ans:
      int i=10;
57.
      Determine the output
      int number = 6;
      printf ("%d\n", number++);
Ans:
58.
      Find the errors:
      int n = 4.2
Ans:
     i) The int in the line must be replaced with float according to value
     ii) The line must end with semicolon
      Rewrite the expression n++; without using the operator ++?
Ans:
     n = n+1;
60.
     What will be the output of the following?
     int number = 6;
     int x = 0;
     x = number--;
     printf ("%d\n", x);
Ans:
```

Find errors in the following code segment: int a b: a = 10b = 5: printf ("a+b=%c", a+b); i) The variables a and b in first line must be separated with comma ii) The second line must end with semicolon iii) The format specifier %c in the last line must be replaced with %d How string value is displayed in C-language? A collection of characters written in double quotations mark is called string a string constant. It may consist of any alphabetic characters, digits and spec symbols. String values displayed on the screen by using printf () function or pu function. Find errors in the following code segment: int a b: a == 10;i) The variables a and b in first line must be separated with comma ii) The == operator in second line must be replaced with = Write a C-statement to initialize three integer variables named A, B and C an assign them the values 10, 20 and 30 respectively. int A = 10; int B = 20: int C = 30; What is compound condition? Give an example A type of comparison in which more than one condition are evaluated is called compound condition. It executes a statement or set of statements by testing man conditions. An example of compound condition is (a > 50 && a < 100). How an arithmetic overflow occurs? The arithmetic overflow occurs due to the manipulation of two very large numbers. The result may be too large to be represented when two very large numbers are manipulated. For example, an overflow will occur if an integer variable is assigned value more than 32767. Find errors: include <stdlo.h> void main (void) int x = 3printf ("%d", x); i) The word "include" in first line must start with # ii) The fourth line must end with semicolon Predict the output of following code segment: int x = 7; int y = 3; printf ("%d and %d", x/y, x%y); 2 and 1 initialize three variables T1, T2 and T3 in a single line by assigning values 48, 45 int T1= 48, T2= 45, T3= 39;

```
What will be the output of following code segment?
 70.
        int y = 3;
        printf ("%d", m%y);
 Ans:
        Find errors in the following code segment:
 71.
       void main ()
       { int x=5
       int y;
       y = x + 3;
       printf ("%d, y);}
       i) The second line must end with semicolon
 Ans:
       ii) The format specifier "%d" in fifth line must enclosed in double quotation marks
       Write a statement to declare an integer variable i initialized to -1?
 72.
 Ans:
       Determine the output of the following code:
 73.
       int b = 9:
       b = b/2;
       printf ("%d", b);
Ans:
74.
      What is arithmetic expression?
Ans:
      A type of expression that consist of constants, variables and arithmetic operators
      is called arithmetic expression. These expressions are used to perform arithmetic
      expressions.
75.
      Find errors in the following code:
      void main ()
      {
      int c=7
      irintf ("%f", C;
Ans: i) The word "Void" in the first line must be written in lowercase
      ii) The third line must end with semicolon
      iii) The variable C in fourth line must be written in lowercase
      iv) The fourth line is missing closing bracket) before semicolon
76.
      Declare two integer variables x and y in one declaration statement?
Ans:
     int x, y;
77,
     Determine the output of the following code:
     Int x, y = 6;
     X = Y++;
     printf ("%d", x);
78.
     Find errors in the following code:
     int a
     printf ("%d" a);
     The first line must end with semicolon
     ii) Variable "a" must be initialized to some integer value in order to display some result
     result
     iii) in second line a comma must be placed between "%d" and "a"
```

OBJECTIVES (MCQ'S) OF CHAPTER-10 IN ALL PUNJAB BOARDS 2011-2021

1.	Which is not a valid escape	code:	(D)\f
(A) \t	(B) \r	(C) \Y	(6 Times)
2.	The escape sequence for back stasti	(m)))	(D)\t
(A) \	(B) \b	(C) \\	c? (4 Times)
3.	(B) \b Which escape sequence can be used	(C)\n	(D) m
(A)/a	(B) \b	th the symbol of:	(3 times)
4.	Format specifier symbol is started w	(C) \$	(D)#
(A) @	(B) % Which of the following is not ternary	onerator?	(m) 2
5.	(B) +	(C)	(D)?
(A) ++	- c	to the second	(2 Times)
6.	o,h (B)string.h	(C) math.h	(D)conio.h (2 Times)
7	The format specifier % u is used for		[21]
(A) inte			toger
	gned float	(D)unsigned decimal in	ilegei
8.	The function gotche / \ is found in		(D) math. h
(A) stdi	o.h (B) string,h	(C) conio. h	Of the state of th
9.	The value of C expression 5/9*2 is:	1-1	(D) 2
(A) 0.2	7 (B) 1.11 Which of the following format spec	(C) 0	ng? (2 Times)
10.	Which of the following format spec	official subsection of the	(D) % s
11.	Which of the given is not a valid esc	(C) /y	(D) /f
(A) /t	sur sur sur function is us	ed to output data in C	programs?
(A) Prin		INNIGHT CHANGES	
141 4-4.	(R)Variable name	CIAUUICSS	(D) Data type
14.	The format specifer used for invaling	potitic values is.	
	/D\ 0/ i	11 1 7011	(D) % f
15.	The escape sequence used to move (cursor one character	back is:
(A) \b	(B) \t	(C) \n	(D) \r
(, ,,		017	
		2017	
	C-lan	guage	*
	The escape sequence for carriage ret	urn is:	
	7h) \c	(c) \r.	(d) \f
(a)	Function which used to get input from	n the user:	(4) (1
17. (a) prin		c) scanf()	(d) puts()
(a) pi	How many variables can be used in c		(a) pars)
In One	(b) Two (c) Ten	(d) Many
19.	The function that is used to display o	utput on screen is ca	lled: (2 Times)
(a) Sca	nf (b) pow (c) display	(d) printf
	A CONTRACT OF THE CONTRACT OF		Total Printer
	2	018	
20.	In Switch Statement, the Case Block e	ends with:	Application for the
(a)	end (D) stop (c) brook	(A)
21.	Format specifier is started with symbol	ol	(d) abort
(a)?	(b) &	c) %	1.11 *
22.	The format specifier % f is used for:	-, .,	(d) *
(a) int	(b) long	c) double	/-I\
23.	If $x = 2$ and $y = 3$, what will be the out (b) 5	Itput of the avarage	(a) float
(a) 6	(b) 5	c) 12	on: $x > y/(x + y)(x^*)$
-			(d) 10

2019 The functions used for input and output is stored in: stdio.h (b) Conic.h (c) Math.h (d) Inout.h An escape sequence begins with a character: (b) (c) / (d) // Which character signifies the beginning of an escape sequence? (b) // (c) * (d) // The general form of format specified for floating point value is: (b) m.n% (c) m%.nf (d) m.n% (d) m.n%f ANSWERS 1 2 3 4 5 6 7 8 9 10 C C C B D D D C B D 11 12 13 14 15 16 17 18 19 20 C A C D A C C D D C 21 22 23 24 25 26 27 28 C D A C A B D D A SHORT QUESTIONS OF CHAPTER-10 IN ALL PUNJAB BOARDS 2011-2021 1. What is the use of ampersand (&) in scanf function? Ans: Trace the output: { float f=3.2413; printf("f=%3.3f",f); } Ans: 3.241 Find Error: { int i = 5; printf("%d",ii); } Intervals				
The functions used for input and output is stored in: stdio.h (b) Conio.h (c) Math.h (d) Inout.h An escape sequence begins with a character: \(\begin{array}{c} \begin{array}{c} \begin{array}{c				
// (b) \				
which character signifies the beginning of an escape sequence? { (b) // (c) * (d) \				
The general form of format specified for floating point value is: % m.nf (b) m.n% (c) m%.nf (d) m.n%f ANSWERS 1 2 3 4 5 6 7 8 9 10 C C C B D D D C B D 11 12 13 14 15 16 17 18 19 20 C A C D A C C D D C 21 22 23 24 25 26 27 28 C D A C A B D A SHORT QUESTIONS OF CHAPTER-10 IN ALL PUNJAB BOARDS 2011-2021 1. What is the use of ampersand (&) in scanf function? The ampersand (&) refers to the memory, location of the variable in which the input is stored. It is placed before variable name and is also called address printf("f=%3.3f",f); } Ans: 3.241 Find Error: { int I = 5; printf("%d",i); }				
ANSWERS 1 2 3 4 5 6 7 8 9 10				
1				
C C C B D D D D C B D 11 12 13 14 15 16 17 18 19 20 C A C D A C C D D C 21 22 23 24 25 26 27 28 C D A C A B D A SHORT QUESTIONS OF CHAPTER-10 IN ALL PUNIAB BOARDS 2011-2021 1. What is the use of ampersand (&) in scanf function? The ampersand (&) refers to the memory location of the variable in which the input is stored. It is placed before variable name and is also called address operator. 2. Trace the output: { float f=3.2413; printf("f=%3.3f",f); } Ans: 3.241 3. Find Error: { int i = 5; printf("%d",i); }				
C A C D A C C D D D C 21 22 23 24 25 26 27 28 C D A C A B D A SHORT QUESTIONS OF CHAPTER-10 IN ALL PUNJAB BOARDS 2011-2021 1. What is the use of ampersand (&) in scanf function? The ampersand (&) refers to the memory location of the variable in which the input is stored. It is placed before variable name and is also called address operator. Trace the output: { float f=3.2413; printf("f=%3.3f",f); } Ans: 3.241 Find Error: { int i = 5; printf("%d",i); }				
21 22 23 24 25 26 27 28 C D A C A B D A SHORT QUESTIONS OF CHAPTER-10 IN ALL PUNJAB BOARDS 2011-2021 1. What is the use of ampersand (&) in scanf function? The ampersand (&) refers to the memory location of the variable in which the input is stored. It is placed before variable name and is also called address operator. 2. Trace the output: { float f=3.2413; printf("f=%3.3f",f); } Ans: 3.241 Find Error: { int i = 5; printf("%d",i); }				
SHORT QUESTIONS OF CHAPTER-10 IN ALL PUNJAB BOARDS 2011-2021 1. What is the use of ampersand (&) in scanf function? The ampersand (&) refers to the memory location of the variable in which the input is stored. It is placed before variable name and is also called address operator. 2. Trace the output: { float f=3.2413; printf("f=%3.3f",f); } Ans: 3.241 3. Find Error: { int I = 5; printf("%d",I); }				
IN ALL PUNJAB BOARDS 2011-2021 1. What is the use of ampersand (&) in scanf function? The ampersand (&) refers to the memory location of the variable in which the input is stored. It is placed before variable name and is also called address operator. 2. Trace the output: { float f=3.2413; printf("f=%3.3f",f); } Ans: 3.241 Find Error: { int i = 5; printf("%d",i); }				
IN ALL PUNJAB BOARDS 2011-2021 1. What is the use of ampersand (&) in scanf function? The ampersand (&) refers to the memory location of the variable in which the input is stored. It is placed before variable name and is also called address operator. 2. Trace the output: { float f=3.2413; printf("f=%3.3f",f); } Ans: 3.241 Find Error: { int i = 5; printf("%d",i); }				
 What is the use of ampersand (&) in scanf function? The ampersand (&) refers to the memory location of the variable in which the input is stored. It is placed before variable name and is also called address operator. Trace the output: { float f=3.2413; printf("f=%3.3f",f); }				
input is stored. It is placed before variable name and is also called address operator. Trace the output: { float f=3.2413; printf("f=%3.3f",f); } Ans: 3.241 Find Error: { int I = 5; printf("%d",i); }				
input is stored. It is placed before variable name and is also called address operator. Trace the output: { float f=3.2413; printf("f=%3.3f",f); } Ans: 3.241 Find Error: { int I = 5; printf("%d",i); }				
operator. Trace the output: { float f=3.2413; printf("f=%3.3f",f); } Ans: 3.241 Find Error: { int i = 5; printf("%d",i); }				
<pre>2. Trace the output: { float f=3.2413; printf("f=%3.3f",f); } Ans: 3.241 3. Find Error: { int I = 5; printf("%d",I); }</pre>				
printf("f=%3.3f",f); Ans: 3.241 3. Find Error: { int i = 5; printf("%d",i); }				
printf("f=%3.3f",f); Ans: 3.241 3. Find Error: { int i = 5; printf("%d",i); }				
Ans: 3.241 3. Find Error: { int i = 5; printf("%d",i); }				
3. Find Error: { int i = 5; printf("%d",i); }				
{ int = 5; printf("%d",i); }				
printf("%d",i);				
Ana.				
Ans: There is				
15 One error in Clampus				
There is one error. i.e. C language is case sensitive. In variable declaration, there is capital I. while small I is displaying in printf statement. Both are different in C.				
Define getch() function. The getch() function. (5 Times)				
abbreviation of () function is used to input single character from the user. It is an				
key to be proceed The proceed The several to the several to be proceed to the proceed The several to the severa				
screen. Trace the				
Trace the errors in the following code: Void main ();				
Ans: Printf ('pak');				
4 errors				
There should no ; after void main().				

Ans:

```
2.
         String pak should be in " ".
                                                                          (2 Times)
 6.
         What will be the output of the following:
         printf("55\t");
         printf("555");
Ans:
         55 555
         How are comments added on multiple liens?
7.
        Comments on multiple lines are added by using "/*" and "*/" symbols. You
Ans:
        write comments between these two lines. i.e.
          /*---- comments
        In multiple lines
                                                                          (2 Times
        Write C statement to print the value of unsigned long x.
8.
        unsigned long int x;
Ans:
        printf("enter the value of x");
        scanf("%d",&x);
        printf("x=%d",x);
        State Relational Expression.
9.
        Relational expression is a statement that uses relational operators to compa
Ans:
        two values. Examples of relational expression are A>B, A<B, A<=B, A>=B, A=
        and A! = B.
        Describe cirscr ( ) function.
10.
        This is used for clearing the output screen i.e console. It is abbreviation of "cl
Ans:
        screen". When this function is executed, the screen is cleared and the cur
        blinks on the top-left corner. This function is available in the header-file conio.
        Write the output of the following code.
11.
        int x=9;
        x = x\%4;
        printf("/n%d is result ",x);
         1 is result.
Ans:
        Trace the output of the following code:
12.
        intx,y,x;
        x=3;
        y=2;
        z=4;
        printf("%d%d%d",x+y,y+5,x+z);
        getche ();
        }
Ans:
      Trace the error of the following code:
13.
       void main ( )
       int a =10
       printf ("%d",a)
       2 errors
Ans:
       int a =10 should terminates with semicolon ';'.
1.
       printf ("%d",a) should also terminates with semicolon ';'.
2.
       Define standard output.
14.
       The process of getting something from computer is known as output. The outp
Ans:
       is mostly displayed on monitor. The term standard output refers to the outp
       displayed on monitor. The result of a program is the output of that program.
       List some important function for output.
15.
       i. printf( )
```

ii. puts ()

```
W.
      Format specifier are started with the symbol %.
Line
      Trace output of the following
12
      float = 1.17834;
      Little.
      Trace the output
1
      you'd main ( )
      orint#["55/t"];
      printf ("566");
      pelanti ("/m 777");
     55 666
Artist.
      777
      Trace the errors in the following code:
13.
      void main ( );
      inta,b;
      a = -10;
      b = 40
      b = a
      printi("Result = %f",b);
      getch ( );
Ans: 4 errors.
      b=40 should be like b=40;
      b=a should be like b=a;
      there should no semicolon after void main
      % f should replace with % d
20.
      Predict the output:
                                                                         (2 Times)
Ans:
21.
      Trace the error in following code:
      float r:
      claser ();
      printf("Enter radius");
      scanf("%f,r);
      3 errors
     float r: should be like this float r;
      There should be a format specifier in scanf statement i.e. scanf("%f,&r);
      double Quotes hould use i.e scanf("%f", r)
22,
                                                                          (4 Times)
      List some important function for input
Ans:
      scanf() gets()
      getch ()
                                                                          (2 Times)
23.
                  getche()
      list out different types of format specifier.
Ans:
      i. Integer format specifier
      ii. Character format specifier
```

```
24
         Trace the error in following codes:
        include stelle. hs
        void main vaid
        printf("%c", Pakistan");
        getch ( ):
 Ans
         3 privire
            There should be it sign before header file. Le. filincludesstate. Its
            Vaid spell are not correct. They should be like this "void" & they should be
            There should not format specifier in print statement, i.e. Printil Tale
25.
        Trace the error in the following code.
        Hinclude satdle. ha
        voi main (void)
        ("Strow world") Ithring
Ans
        3 errors
            Spell of void is not true. It should be like this void mail (woid)
            The starting braces after main function is missing.
            Print statement should be terminated with semicolon. The colon world
        Define the format specifier used in printf( ) and scanf( ) functions.
26.
        Format specifier is used to specify the format according to which values will t
Ans:
        read and displayed. It determines the data type of sample, field width a
        format of the value, it is denoted by % sa
27.
        Trace the output
        #include<xtdio.h>
        void main (void) (
        int x = 10;
        printf("%d", x%2);
Ans:
        Trace the output
28.
        #Include <stdio.h>
        void main (void)
        int x = 1:
        Int y = 2;
        n = n+1
        V = V+N
        print("%d/n%d",x,y);
Ans!
        Trace the errors in the following code.
29.
       #include<stdio.h>
       void main (void)
       int u= d
       y = x+10
       printf("%d", x+v);
       2 orrors
Ans:
       There should be semicolon after int x=4. i.e. int x=4.
       there should also be semicolon after y = x+10 i.e. y=x+10
       Write down the name of any four escape character provided by C.
10.
              In is used for insert a new line in output.
Atte
              If the excape sequence is used to insert a tab in the output.
              Ib is used to insert a backspace in the output.
       橋力
              V is used to insert a single quote in the output.
```

```
What is standard input?
31.
      The input given by the keyboard is known as standard input. The keyword scanf is
Ans:
      used to input data from keyboard. The syntax of standard input is as follow:
      scanf("format _specifier", & variable_name);
      Find the error in the following code:
32.
      main ();
      printf("Hellow");
      2 error.
Ans:
             main () cannot be used without Void.
      1.
             main () should not terminated with semicolon (;).
      2.
      Trace the output of the following code:
33.
      void main ( )
      int t=10;
      printf("22\t");
      printf("666");
Ans:
           666
     Write the syntax of printf () statement.
34.
                                                                               2 times)
     The syntax of printf ( ) statement is as follow:
Ans:
      printf(format/control string, argument list);
     What is an escape sequence? Give example.
35.
                                                                            (4 Times)
     Escape sequences are special characters used in format string to modify the
Ans:
     format of the output. These characters are not displayed in the output. These
     characters always begin with backslash "V". Backslash is known as escape
     character. i.e. \b, \r, \n etc.
     Trace the errors in the following code (2 times)
36.
     #include <std.n>
     void main (Void)
     printf('Paksitan');
Ans:
     2 errors
     1.
            Name of header file is not correct i.e. stdio.h
            String Pakistan should be in " " double quotation.
37.
     Predict the output of the following
     void main ( )
     int x=1;
     X ++;
     printf("%d",x++);
Ans:
     Predict the output of the following code
     void main (void)
     printf("Hello/"World");
Ans:
     Hello World
                                                                         Define Scanf()
     What is the use of "scanf ()" function? Write its syntax.
                                                                         (3 Times)
     function?
     scanf is used to get input from the user. The input is stored in a variable in a specified of
     specified form. Syntax:
     scanf(format string,&var1,&var2,&var3,......&var n);
```

```
Predict the output of the the following
 40.
        int a=9:
        a=a % 4:
        printf ("/n % d is Result", a);
Ans:
        Trace out errors in the following code:
41.
        float area, r,
        cirscr();
        print f ("Enter radius);
        scanf ("% f", r);
        2 errors:
Ans:
               Variable declaration should close with semi colon. i.e. float area , r;
        1.
               There should be address operator in scanf statement. i.e. scanf ("% f", &
        Predict the output of the following code
42.
        void main (void)
        printf("World");
        World
Ans:
43.
        Find the error in the following code.
        # include (conio.h);
        include (stdio.h);
        void main ( )
        printf("OK");
        2 errors
Ans:
               First header file should not terminate with semicolon.
               There should be '#' before the second header file and shouldn't terminat
        2.
               with semicolon, i.e. #Include (stdio.h)
       Find the ouput of following code.
44.
       int a,b,c;
       a=b=c=6;
       a=4;
       b=a;
       c=2:
       printf("%d%d%d",a,b,c);
       442 mean 4 4 2
Ans:
       Find the output of the following code.
45.
       printf("Pakistan\n is an\n Islamic \n country");
       Pakistan
Ans:
       Is an
       Islamic
       country
       Find the error in the following code
46.
       void main ( );
       Print(OK)
        3 errors
Ans:
               There should be no semicolon after main function.
        1.
               Print is not any keyword in C. it should be printf.
        2.
               Printf(ok) should terminated with semicolon';'.
        3.
       What is the control string in printf function?
47.
       control string is a message display in the prinf statement. It usually give the
Ans:
       message to the user to input or output data on screen. i.e.
```

```
printf("your marks are %d and grade is %c",m,g);
      The message "your marks are %d and grade is %c" is format string.
      Trace the errors in the following code:
48.
      #indclue (std10.4)
      void main (void):
      {
     x=5;
      v=6;
      z=X+Y
     printf("%d", z);
     3 errors
Ans:
     Name of header file is not correct. It should be stdio.h.
1.
     void main should not terminate with semicolon.
2.
     z=x+y should terminate with semicolon. i.e. z=x+y;
3.
     Variables are not declared
4.
                                        2018
     Write output of the following code:
49.
     int x = 4*5/2 +9:
     print f ("%d";x);
Ans.
    19.
    Trace the error in the following code.
     Void main()
     {
     x=20;
     y = 40:
     X+y=z
    print f f(%d"; z)}
Ans.
    i.
           Variable x,y,z are not declared.
           Semi colon is missed after printf statement.
           Double quotation mark is missing before %d.
51.
    Write the output of the following code.
    int a,b,c;
     a=5;
    b=10;
    c==a+b;
    printf ("The sum of a+b=%d",C);
Ans.
    The sum of a+b=15
52.
    What is the purpose of fgets () function.
    It is used to input string value from the user. The input is stored in a string
    variable. The user can enter any type of data.
    Compare getch () and getche () functions. OR getche() function? (2 Times)
              getch () function
                                                       getche () function
     This function is used to input single
                                             This function is also used to input
     character from user. It is an
                                             single character from user. It is also
     abbreviation of get character. When it
                                             an abbreviation of get character. But
     is executed the character entered by
                                             when it is executed the character
     user is not displayed on screen.
                                             entered by user is displayed on
```

screen.

10

```
54.
        Trace output of the following code.
        int x=0, y=5, x=4;
        x=y+z*5;
        printf("Result = %d",x);
Ans.
        Result = 25
55.
        Find error in the following code:
        void main ();
        {
        print ("Pakistan");
              Semicolon after void main () is wrong. No semi colon exists after void main
Ans.
        i.
                in C Language.
                There should be printf instead of print.
        ii.
        Trace output of the following code.
56.
        int a = 5, b=10;
        int c = a+b *2;
        printf ("The output is %d",c);
        The output is 25.
Ans.
        Trace the errors in the following code:
57.
        #includes<stdio.h>
        void Main ();
        printf ("Hello World");
                Write include instead of includes.
        i.
Ans.
                M should be small in Void Main ( ).
        ii.
               There should be no semi colon after void main ().
        Determine the output.
58.
        char w1,w2,w3;
        w1= 'A';
        w2 = 'B';
        w3≐'c';
       printf("%cw2%c",w1,w3);
        AW2C.
Ans.
       Determine the output.
59.
       int x= 3;
       printf("%d%d", x,2*x);
        36.
Ans.
       Write the output.
60.
       float f=3.14159;
       printf("8.4f"f)'
           3.1416
       Find out two errors from following code.
Ans.
61.
       if(x==y)
       printf("hello")
Ans.
               Braces are missing.
               Statement termination (;) semicolon is missing.
       Find output from following code.
62.
       int price = 10;
       if (price==10)
       {printf("%d",price);
       }
```

```
Write output of the following code.
63.
      printf("%,d%d",2 x x,3 x x);
      1015.
Ans.
      Write output of the following code.
64.
      int a,b,c;
      a = 15;
      b=10;
      c=a+b;
      printf("c=%d",-c);
Ans.
      Find errors in the following code.
65.
      #include<stio.h>
      void main ()
      int x = 10, y = 13;
      x = ++y;
      V=X++;
      printf("%d%d",x,y);
             in line 1, Stio.h is wrong. It should be stdio.h
Ans.
             In line 2, Void is wrong. It should be void because is case sensitive.
      Name any four format specifier provided by c.
66.
Ans.
                           Used for signed decimal integer value
                   %d
         ii
                           Used for signed float or double value.
                   %f
        iii.
                   %с
                           Used for character value.
        lv.
                   %5
                           Used for strings.
67.
      Describe\ n Escape sequence.
     This escape sequence is used to insert new line in output. For example printf
Ans.
     ("555\n");
     printf("55");
     output will be
     555
     55
68.
     Determine the Output:
     Print f ("777\n");
     Print f("77");
Ans.
      777
      77
69
     Determine the Output:
     int num = 10;
     num * =5;
     print f("%d", num);
     Find the Errors:
     void main ();
     int x=5;
     print f ("%d",x);
ms.
             There should be no semicolon (;) after void main ()
      ii.
             There should be no space int x=5;
             There should be no space between print and f.
      lii.
```

The World of C

Ans:

printf ("Hello to \n The World of C");

```
Determine output of the code:
 82.
             int x = 15;
             int y = 5;
            printf ("%d \t %d", x%y, x/y);
 Ans:
            Determine the output of following code?
 83.
            int a = 10;
            int b = 12;
            int c:
            c=a+b:
            printf ("c=%3d", --c);
Ans: c 21
           Find errors in the following code segment:
            void main (void);
            {int c=7
            Printf ("%f", c;
Ans: i) The semicolon at the end of first line is invalid
            ii) The semicolon is missing at the end of second line
            iii) The format specifier "%f" must be replaced with "%d" in third line
            iv) The closing bracket) is missing after the variable c in third line
           Differentiate between printf and scanf function?
          The printf function is used to display different values on the screen. It can display
           text, constant or values of variables in specified format. The scanf function is used
           to get different types of inputs from the user. The input is stored in variables in
86.
           Write a C- statement which scans three floating point variables a, b and c in a
Ans:
          scanf ("%d %d %d", &a, &b, &c);
           Determine the output of the following code:
           float f = 3.14159;
           printf ("f= %4.2f", f);
Ans:
           f = 3.14
           Determine the output of the following code:
            float f = 6.3159;
           printf ("f= %3.2f", f);
Ans: f = 6.32
          Write the purpose of "%c" format specifier?
Ans:
          Format specifier "%c" is used for single character values.
          Rewrite the code after correction?
           float f = 3.14
           printf ("%d", f;
          Correct code is:
          float f = 3.14;
          printf ("%f", f);
          What is the output of following code segment?
          Write a single printf statement to display the following text:
          Printf ("C:\\My documents\");
          What will be the output of following code?

prints ""

 Book ("Book \n Reading \t is good habit");
           Reading is good habit
```

OBJECTIVES (MCQ'S) OF CHAPTER-11 IN ALL PUNJAB BOARDS 2011-2021

	1.	How much a conditional operator	takes operand?	
	(A) 4	(B) 3	(C) 2	1012
		In if statement, false is represent		(5 Times)
	(A) 0	(B) 1	(C) 2	(D) 3
	3.	When a relational expression is fa	Ise it has the value:	(2 Times)
1	(A) zero	(B) one	(C) less than U	(D) two
	4.	Which of the following is used for	making two way deci	ision: (3 times)
	(A) if-e	lse (B) if	(C) nested if	(D) SWITCH
	5.	Another term for a computer make	(ing a decision is:	(2 Times)
	(A) seq	uential (B) selection	(C) repetition	(D) ineration
	6.	Which programming structure ma	ikes a comparison:	(4 Times)
	/. //\ \ \ da	Relational operators allow you to	numbers.	(4 Times)
	(A) Add	(B)Compare	(C)Multiply	(D) Divide
	IAI San	Which programming structure exe	cutes program statem	ients in order? (4 Times
	(A) 364	which of the following is applied	(C)Decision	(D) Relation
	(A) P<0	Which of the following is equivale (B) ! (P <q)< td=""><td>nt to (P>=q):</td><td>(2 Times)</td></q)<>	nt to (P>=q):	(2 Times)
	10.	The case block ends with	(C) P>q	(D) !P <q< td=""></q<>
	(A) end	The case block ends with: select (B)end case	(C) break	(5 Times)
	11.	The conditional operator is an alte	ernative of:	(D)case else
	(A) If	The conditional operator is an alte (B) if else What will be the output of: (B) XY7	(C) Nested if	(D)None
	12.	What will be the output of : (6>7)? Print f("ABC"	1. nrintf("YY7").2
	(A) AB((B)XYZ	(C) ABC XYZ	(D)XYZ ARC
	13.	(B)XYZ Which is an example of multiple bratement (B) switch statemen	anches from single exp	ression:
	(A) II S	tatement (B) switch statemen	t (C) while loop	(D) for loon
			2017	(/ .с. юср
			201/	Z win a second
		C-la	nguage	
	14.	willer keyword is not used in swite	ch statements	
	(a) def	ault (b) if	(c)case	(11 times)
	15.	An expression that uses a relationa	operator is known	(d)switch
	(c) Rel:	ial Expression attional Expression	MIIInmatic Eve	1
	16.	Which is the simplest select	(d) Sequential Expess	Ssion
	(a) if	Which is the simplest selection stru (b) switch	icture?	ion
	17.	What operators are used to loin to	(c)if-else	(11 times)
	(a) Rela	What operators are used to join two itional (b) Logical In If statement, true is re-	o or more conditions?	(d)Nested-if
	18.	of the 15 represented	(c) Assignment	
7	(a) 0 19.	(b) 1	(6)2	(d) Comparison
	(a) con	Relational operators allow you to For A=4 and B (c) mul	IC/2	(d)3 (11 times)
	20.	For A=4 and B=4 which expression (b) = The three programming see	tiply	
	(a) +	(b) = expression	evaluates and	(11 times)
	21.	The three programming structures a	(c) ==	· /ilac
	(a) Se	quence, Decision, Repetition arguments	are:-	(d) +=
	(C) Fui	iction arguments	(b) Process Dociet	
			(b) Process, Decision, (d) Relation, Compari	Alternation
-	22.	Switch statement	2018	ison, process
	(a) ne			to a second
enes.		(b) if-else	(0) 5	Robert August to Harman and the
1407	1		(c) for loop	(2 Times)
del	A STATE		Miles	(d) while loop

Which operator in C is called a ternary operator (2 Times) 13. (b) if (d)() Another term for conditional operator, 1 (2 Times) 1 (d) for (b) binary (c) byte al terrory Conditional operator takes: (a) one operand (d) four operands (b) two operands (c) three operands 2019 The case block ends with: 16. (d) Case Else (a) End select (b) End Case (c) break An if statement inside another if statement is called: (b) if-else statement (c) Nested if statement (d) Switch Statement The Operators to compare operands and decide if the relation is true or false: (b) Logical Operators al Arithmetic Operators (d) Syntax Operators Relational Operators 23. What does a compound condition use to join two conditions? (d) Logical operator (a) Relational Operator (b) Relational Result (c) Logical Result Graphical representation of a program is called: (d) E-R (c) Flow-chart (b) Binary chart a Logical chart **ANSWERS** 10 9 7 4 5 6 C В A B В C A A A 19 20 17 18 16 15 11 14 12 13 C Д В B В В В C 30 29 28 21 25 23 24 22 C A SHORT QUESTIONS OF CHAPTER-11 IN ALL PUNIAB BOARDS 2011-2021 Define selection structure. Enlist its different types. A selection structure selects a statement or set of statements to execute on the basis of a condition. There are two types of selection structures. These are as follows: i, if-else ii. switch-case structures. What is switch () structure? Switch () structure?

Switch statement is another conditional structure. It is good alternative of nested if else if if-else if statement is another conditional structure. It is good alternative of most only one of statements can be used easily when there are many choices available and only one should be executed. Amount = (x>y)? x y : x+y; convert this statement with conditional operator to an equipal (2 Times) an equivalent if-else statement. if (x>y) amount = x * y; else amount = x+y;

```
Write an expression C-language for the following: number is divisible by 3.
     if (n\%3 = =0).
15:
     Write an expression in C language for "Number is divisible by 5".
     if (n%5==0).
ns:
                                                                          (6 Times)
     Define Control structure.
     Control structure is a structure which is used to control the flow of execution
ns:
     the program. The basic control structure for writing programs are sequent
     selection and repetition.
     What will be output of the following:
      int x=5, y=10;
      if (x>y)
      v=2;
      y=y+1;
      printf("value of y= %d",y);
      value of y 11
Ins:
      Trace the error in the following:
3.
      void main()
       inta,b;
       a = -10
       a = 40
       if (a<0);
       b= sqrt(A);
       printf ("Result = %f',b);
       getch();
        5 Errors
Ans:
        1. a=-10 should be terminate with semicolon (;).
         a=40 should also terminates with semicolon (;).
 2.
         There should no semicolon after if statement.
 3.
         In printf statement ending "is missing.
 4.
         There should be space between a,b,
 5.
         What happens if break is missed in case of block?
 9.
                                                                         (4 Times)
         If break is not used, all case blocks coming after matching case will also
 Ans:
          executed. Which will take more time to execute a program.
          What is the output of the following code?
  10.
          int x=1;
          int y= 2;
          z = 3:
          if (x==y) | | (y==z) | | (z==2)
           printf ("Yes")
           else
           printf("No")
   Ans:
           Define sequential structure. OR
   11.
                                             How instructions are executed in sequence
           structure?
           In sequence structure, the instructions are executed in the same order in which
    Ans:
           they are specified in the program. The control flows from one statement to other
                              Sequential Logic Structure
```

```
Write the syntax of "Switch" statement.
12.
      switch (expression)
Ans:
      case val 1:
      statements;
      break;
      case val 2;
      statements;
      break;
      case val n:
      statements:
      break;
      default:
     statements;
      What is the output of given code?
13.
      int b=6, c= 5;
      if (b++==7&&++c=5)
      printf("d/n",++b)
      else
      printf("%d/n",b--);
Ans:
14.
      Write syntax of conditional structure.
Ans:
      (condition)? True-case statement: false-case statement;
15.
      Write syntax of if-else statement.
Ans:
      if (condition)
                                                                          (2 Times)
      statement;
      else
      statement;
16.
      Trace the errors in the following code.
      Void main (); {
      int and
       if (a=1)
      printf ("OK")
      else
      printf("Cancel"
      getch ();}
Ans:
      5 errors
1.
      There should not semicolon after void main ().
2:
      int a=2 should terminated with semicolon i.e. int a=2;
3.
      printf("ok") should also terminated with semicolon, i.e. printf ("OK");
      printf("Cancel")should also terminated with semicolon, i.e. printf("cancel");
      if (a = 1) should be If (a = 1)
      What is the output of the following code.
      m=0;
      n=m;
      if(m==n)
      printf("BWP");
      else
Ans:
      printf("LHR");
18
      BWP
Ans:
      Write two rules of using Switch Case in C Program.
      1. The case label must be integer or character.
```

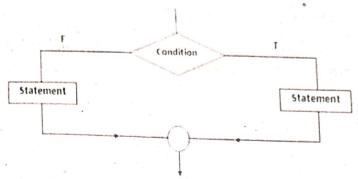
```
2. Each case label must be unique.
        3. Switch statements should only have one default label.
19.
       Trace the errors in the following.
       void main ( )
       int x, z;
       if (x>y);
       print f ("x is largest")
       else
       print f ("y is largest");
       getch ();
       3 errors
Ans:
       Starting delimiter is missing.
1.
       Condition should not terminate with semicolon.
2.
       There should not space between Printf.
3.
       Trace the output of the following codes:
20.
       int a=4, b=2, c=5;
       if (a>b)
        a=5;
       if (c==a)
        a=6;
        a=7;
        printf ("%d",a);
Ans:
        Define conditional operator? Write its syntax.
21.
        Conditional operator is decision making structure. It can be used in place of simple
Ans:
        if-else structure. It is also called ternary operator as it uses three operands.
        Syntax:
        (condition) ? true-case statement: false-case statement;
        Predict the output of the following code:
22.
        if (4\%2 = =0)
        printf ("Programming makes the life interesting /n");
        printf("Programming is difficult to learn");
        Programming makes the life interesting.
Ans:
        Trace the errors:
23.
        int p=20
        if(price = = 20)
        price =0;
        else
        price =2,
        2 errors
Ans:
               int p=20 should terminate with semicolon.
               price=2 should also terminate with semicolon.
        What is compound condition statement?
24.
        A statement in which more than one condition is evaluated is called compound
Ans:
        condition operator. It is used to execute a statement or set of statements by
        Trace the error in the following code:
25.
        void main ( )
        int x=0
        if (x=1)
         printf("Hello");
         else
         printf("Bye):
         2 errors
 Ans:
```

```
15" Class
                                                         A Plus Computer Solved Paper
     int x=0 should terminate with semicolon.
     bye should also close with double quotes. i.e. "Bye"
     predict the output for the following code:
16
     int a,b,c;
     a=10:
     hall;
     iffa%b== 1)
     ca(t)
     else
     cal;
     printf("%d"c);
ASS.
     Why a default label is used in switch statement?
1
     The default label appears at the end of the all case labels, it executed only when
INS.
     the result of expression doesn't match with any case label. Its use is optional. The
     position of default label is not fixed.
     Write output
18.
     int p. q.r.
     p=10;
     0=3;
     if(p\%q==3)
     r=0;
     else
     r=1;
     prinft("%d",r);
Ams:
19.
     Write down the output of following code,
     char ch='a';
     switch(ch)
     case 'a'
     printf("A");
     case 'b';
     printf("B");
Ans:
30.
     What is the error in the following code?
     int x=10, y=20;
     if (x>10&y<30)
     printf("%d",x+y);
     1 error: there should be && in place of single & in if statement,
31
     What is the use of if-else statement?
     if-else statement can be used to choose one block of statements from many blocks of
     of statements. It is used when there is many options and only one block of
     statements should be executed on the basis of a condition.
     What do you know about "if" statement?
     If is a keyword in a C language. If statement is a decision making statement. It is the simulation of the statement of
     the simplest form of selection constructs. It is used to execute or skip statement or
     set of statements by checking a condition. Syntax:
            If (condition)
            Statement;
     Find output:
     int p=3, q=5;
     if ((p>q)||(p! =4))
      p=p+1;
      else
      p=p-1;
```

```
p=p*2;
        print f("p = % d", &p);
Ans:
        Trace out errors in the following Code:
34.
        void main ( )
        int R;
        R=17
        if (R>0)
        R = R*3.14*3.14;
        print f ("the value of R is = % f;R);
        getch();
Ans:
        2 errors:
                R=17 should terminate with semicolon.
         1.
                printf ("the value of R is = % f;R); should be like this
                 printf ("the value of R is = \% f",&R);
         Find out errors:
35.
         # include <Stdio>
         void main ( )
         if (50>20) then
         printf ("Islamic Country");
         getch ()
 Ans:
         5 errors
         Name of header file is not correct. it should be <stdio.h>
 1.
          {Should use in place of [.
 2.
          Then should not use after condition because it is syntax error.
 3.
          Getch() should have small g. i.e. getch().
 4.
          } should use in place of ].
 5.
          Trace error:
 36.
          void main ()
          int a=2
          if (a==1)
          prinf("OK");
          printf("Cancel");
          getct();
          3 errors
  Ans:
          int a=2 should terminate with semicolon.
  1.
          else should not have capital E. i.e. else
  2.
          getch should use inplace of Getct().
  3.
          Trace output:
  37.
          int a=5, b=10;
          If a>b
          printf("Low Triangle");
          printf("Huge Triangle");
         Huge Triangle
```

What is selection structure?

In selection structure we select a statement by using condition. If condition is true, 38. select that statement otherwise, select other statement. i-e. Ans.



List any four types of control structures.

- i) Sequential
- ii) Selection
- iii) Repetition
- (vi Function call

How instructions are executed in repetition structure? 40.

In repetition structure, instruction will execute until condition is true. When Ans. condition is false, instruction will not be executed and control will transfer outside 41.

Define relational operators?

Logical operators are used for logical operations, i-e. <, >, <=, >=, 1= etc these are 42.

Write three advantages of switch statement in c-language.

Ans: i. The switch statement is alternate is alternative of nested if-else statement.

ii. It can be used easily when there are many choices available and only one

ili. The switch construct is useful in the case where selection is based on the

2018

43. Determine the output.

int x = 1, y = 2, z = 3

if ((x==y)(y==z)(z==2))

print f ("yes");

else

print f ("NO");

Starting and closing braces are missing. ii.

or should be replaced by II. Determine the output.

int x = 50;

int y=25;

if (x%y==0)

printf("Result = %d",x%y);

printf ("No result");

45. Result =O

Ans Define nested if statement.

An if statement within an if statement is called nested if statement. In nested structure, the control enters into the inner if when the outer condition is true.

```
45.
        Trace Errors in the following Code
        void main ()
        \{int x=3
        int y=4:
         if (x<y);
         printf("%d",y):
                 There should be semicolon after int x=3.
 Ans.
                 There should be no semicolon after if statement.
         ii.
                 After printf statement, colon(:) is wrong. There should be semi colon (;).
         III.
 47.
         Write the error from following code:
         Void main ():
          {int x=10:
          if \{x==10\}
          X++
          else
          X--;
  Ans.
          .
                  Use void instead of Void.
          ži.
                  There should be not semicolon at the end of void main ().
                   Statement termination should be after x++.
   48.
           Write the output of the following code.
           int x,y,z=1;
           x=y=3;
           If (x==y) \parallel (y < z)
           printf("Yes");
           else
            printf("NO");
    Ans.
            Yes.
            Write output of the following code.
    49.
                                                                         (2 Times)
            int p=3; int q =5;
            if(p>q)
            printf("%d",p);
            else
             printf("%d",q);
     Ans.
             Determine the output of the following code:
     50.
             If (1!=2)
             printf("OK");
             else
             printf ("Correct it");
             OK
      Ans.
             Trace the output in the following code:
      51.
             If (7)=10
              printf ("Hello")
              else
              printf("Welcome"):
              Hello.
       Ans.
       52.
              Find errors.
              Void main (void)
               int x=10;
               if (x=10)
               printf("True");
               end if
        Ans.
               1.
                     if (x=10) is wrong the correct way is if (x==10)
               II.
                     Void is wrong. The correct is Void().
```

```
Define compound statement?
    A set of statements written in curly brackets { } after if statement is called
53.
    compound statement.
    Convert the following conditional expression into if else statement:
54.
    x < 0? y= 10: z= 20;
    if (x<0)
Ans:
    v=10;
    else
    z=20;
    Determine the output of the following code:
    If(1! = 2)
    printf ("OK");
    else
    printf ("Correct it");
Ans: OK
    Define condition?
6.
Ins: A condition is an expression that evaluates to true (1) or false (0).
    Determine the output of the following code:
    If (1= = 2)
    printf ("Hellow");
    else
    printf ("Correct it");
    Correct it
18.
   Determine the output of the following code segment:
    int p, q, x;
    p= 21; q= 4;
    if (p % q == 4)
    x= 0;
    else
    x=1;
    printf ("x= %d", x);
    X= 1.
9
    Write a C- statement using conditional operator that checks the values of two
    Variables x, y. It assigns the smallest value to the variable "min".
    \min = (x < y)? x: y;
    Determine the output:
    If (7% 3==0)
  , Printf ("Punjab");
    printf ("Sindh");
    Sindh
```

```
61.
          Find the error:
          void main ()
         int y = 10;
         IFF (y==5)
         Printf ("%d" y);
 Ans:
         i) The word IFF must be replaced with if
         ii) The comma is missing before the variable y in fifth line
         Write a C- statement that assign 1 to the variable y if the value of variable x
 62.
         greater than 0. Otherwise, it assigns -1 to the variable y.
         if (x > 0) y=1;
 Ans:
         else y = -1;
 63.
         What will be the output of following?
         char c= 'a';
        switch (c)
        case 'a'
        printf ("a");
        default:
        printf ("Not a");
        }
        aNot a
Ans:
        Why break statement is used in a "switch" structure?
64.
        The break statement in each case label is used to exit from switch body. If break
Ans:
        not used, all case blocks coming after matching case will also be executed.
        Find the output of the following code segment:
65.
        int x= 10;
        (x%2==0 ? printf("Even"): printf ("Odd"));
        Even
Ans:
```

LONG QUESTIONS OF CHAPTER-11 IN ALL PUNJAB BOARDS 2011-2021

1. Write a program that inputs a character and determines whether it is a vowel of consonant. (2 Times

Write a program in C-Language that inputs a number and finds out whether is evel or odd. (2 Times

3. Write a program in C-Language to accept a year from the keyboard. Find out it is "Leaf Year" OR "Not Leap Year.

4. Write a program in C that inputs the number of the month of the year and display the number of days of the corresponding month using if - else - if statement. (e.g. if user enters 2, it will display 28 or 29)

IN ALL PUNJAB BOARDS 2011-2021 A loop within a loop is called: (4 Times) (B) inner loop (D)none of these (C) outer loop This statement causes a loop to terminate early: a) nested loop (2 Times) (B) terminate (D) all of these What is the final value of x after executing the following code? For (int x=0;x<5;x++) (D)6 (C) 5 (B) 4 one execution of loop is known as: (7 Times) (D)duration (C)circle (B) cycle Which of the following loop is available in C-language? (D) do-while (C) sequence (B) for-next while-wend Which loop structure always executes at least once? (4 Times) (D) sequence (C) while (B) for While loop is also called: (4 Times) (B) conditional loop (C) wend loop (D) ineration counter loop A special value that makes the end of a list of input data is called:(2 Times) terminal value (B) sentinel value (C) loop control value(D) input value Which statement is used to move the control to the start of loop body: (D) default (B) break (C) switch continue Semi Colon is placed at the end of condition in (4 Times) (D) do-while-loop switch (B) for loop (C) while loop Aloop counter can be defined as: The final value of a loop (B)A variable that counts loop iterations The initial value of a loop (D) The step value of a loop If you want a user to enter exactly 20 values, which loop would be the best to use? while (B) Do-while (C) infinite (D) FOR Which is a loop statement? (4 Times) (B)if-else (C) switch (D) for The body of loop comes before the next condition in: Do-while (B) While (C) for (D)all of these Which of the following is not a loop structure? For (B) While Do-while (C) Switch (D) Aloop that never ends is called: multiple loop (B) finite loop (C) infinite loop (D)nested loop Which of the following loop is called counter loop? (B) while (C)do-while (D)if How many types of loops structure are available in C? (2 Times) (B)3(D)6(C)22017 while loop, the loop control variable is always initialized? utside the program (12 times) after loop ends (b) inside the loop body This statement cause the loop to terminate early: (d) outside the body of loop (14 times) (d) End A loop which never ends is called: (2 Times) Running loop (c) Exit (d) Infinite loop (c) Nested loop (b) Continuous loop 2018 (2 Times) h which loop the condition comes after the body of the loop:
(d) nested loop 1-1 Do-while loop

OBJECTIVES (INTO CO) OF

12th Class

```
for (a=1; a<=50;a+=3)
s = s +a;
printf("Sum = %d",s);
getch ( );
```

Ans:

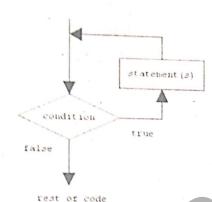
Ans:

Define sentinel control loop. 4.

A type of loop in which execution of loop is depends on the sentinel value. This Ans: type of loop depends on special value known as sentinel value. Sentinel value indicates that the loop should continue or terminate. For example, a loop may execute while the value of a variable is not -1. Here -1 is the sentinel value that is

Draw a flowchart of while loop. 5.

(2 Times)



6. What is output of the following code, void main (void)

Int n= 1: While (n < =5)Printf("Pakistan"); n=1+1; getch ();

Ans: Pakistan, Pakistan, Pakistan, Pakistan.

7. Define "do-while" loop

(2 Times)

Ans: The do-while is an iterative control in C language. It executes one or more statements while the given condition is true. In this loop, the condition comes after the body of the loop. The loop is important in a situation where a statement must be executed at least once.

Define go to statement.

The go to statement is used to perform an unconditional transfer of control to a named label. The label must be in the same function. A label is meaningful only to a go to statement. The general form of go to statement is as follows:

go to label;

Define nested loop.

(2 Times)

A loop within a loop is called nested loop. In nested loops, the inner loop is executed completely with each change in the value of counter variable of outer loop. Any loop can be used as inner loop of another loop.

10.

2016

Trace the output of the following code: void main ()

```
Int x, y=5;
        for (x=0;x<3;x++)
        if (y>=5)
        print f ("%d",x);
 Ans:
        012 mean 0 1 2
 11.
        Trace error
        int x=5;
        int y
        y=x+3
        printf("%d",y);
 Ans:
        2 errors.
                int y should terminate with semicolon.
                Y=x+3 should also terminate with semicolon.
 12.
        Trace error:
        Include<STDIO.H>
        VOID Main ();
        printf("Pakistan");
 Ans:
        3 errors
        1.
                STDIO.H should be in small letters i.e. stdio.h
                VOID Main should be like this void main.
                void main() should not terminated by semicolon.
        Predict the output of the following piece of code:
 13.
        int =1:
        while (i<=5)
        Printf ("Pakistan");
        1++;
        Pakistan Pakistan Pakistan Pakistan.
 Ans:
        Convert the following loop in do-while loop.
14.
        for (i=3; I <39;i+=-6)
        Printf("%d\n",i)
 Ans:
        int i=3;
        do
        Printf("%d\n",i)
        i+=-6:
        while(i<39);
        Write the syntax of while loop, both for single statement and for multiple
         For single statement:
         While (condition)
         Statement;
         For multiple statements:
         While (condition)
         Statement 1;
```

```
12th Class
     Statement 2;
     Statement N;
     predict the output from the following code
16.
     int n;
     cirscr ( );
     for (n=5;n>=1; n--)
     prinff("%d",n);
     getch ();
     54321
Ans:
     Write output
                                                                         (2.Times)
17.
     int x=5, y=3;
     do
     x=x*2;
     y=y+2;
     while (y<7);
     prinff("%d",x);
Ans: 20
     Write down the syntax of do-while loop.
Ans: do
     statements;
     increment/decrement;
     while(condition);
    What is the output of following code?
     int x=10;
     for(x=8;x>=1;x--)
     printf("%d\n",x)
Ans:
     8
     6
     4
    Write the output of following Code
    int x;
    for (x=0; x>0; x++)
    print f ("%d\n",x);
    This loop will show nothing because x=0 and condition will true when x>0.

Condition is fall.
    Condition is false.
                                                                           (2 Times)
    Convert following loop code into while loop code:
    for (i=10;i>0; i--)
```

76

```
printf("i=%d", i);
       int i=10;
Ans:
        while(i>0)
        printf("i=%d", i);
        i++;
       Trace output
22.
        intl,j=10;
       for (i=1;i<=5; i++)
        prinf("\nPakistan");
        Pakistan
Ans:
        Pakistan
        Pakistan
        Pakistan
                                                                           (2 Times)
       Pakistan.
       Convert the following code into while loop:
23.
       for (int i=1; i<10; i++)
       printf("/nPakistan");
       int i=1;
Ans:
        while(i<10)
          printf("/nPakistan");
               1++;
       Trace the output of the following:
24.
       int k=0;
       while (k < =5)
       printf ("OK");
        K++;
       okokokokok
Ans:
       for (i=1,i<=5;i++)
25.
       printf("/n%d", i); Re-write the above program segment using while loop.
       int i=1;
Ans:
        while (i<=5)
       printf ("/n%d",i);
       j++;
```

2017

Two uses and advantages of loop. 26.

It is time saving. There is no need to repeat statements again and again. i)

```
Convert into do wille loop!
      for(int n=1;n<=10;n++)
27.
      printf("%d",n);
     int n = 1;
Ans.
     do
      printf("%d",n);
      n++;
     while (n <= 10);
     Why sentinel value is used in loop?
28.
                                                                       (2 Times)
     Sentinel value is used to control the iterations of loop. If we will not use sentinel
Ans.
     value then loop iterations will be infinite.
     Define while loop?
29.
     While loop is used to repeat a statement or block of statement until given
Ans.
     condition is true.
     Syntax:
            initialization:
            while (condition)
                    statement;
                    increment/decrement:
30.
     Differentiate between break and continue statement in loops?
     Break statement is used to terminate the execution of code. Where as break is
     used, that block of code terminate it execution and control comes out of that
     block.
     Continue is used to move the control the beginning of loop body. Until condition is
     true.
31.
     What is continue statement?
                                                                        (2 Times)
     Continue statement is used to move the control to the beginning of loop until
     condition is true.
32.
     Convert into do while .......
     for (i=1; i<=5; i++)
     printf("\n\%d",i);
Ans.
     # include <stdio.h>
     void main ()
     int
          i=1;
     do
     printf (%d \n", i);
     i++;
```

```
33.
        Convert following code into while loop?
        for (int j=1; j<=4;j++)
        printf("%d", j);
Ans.
        int j = 1;
        while(j \le 4)
         printf("%d", j);
        j++;
                                              2018
                                                                              2 Times)
 34.
         Define post-test loop.
         It is a type of loop in which the condition is checked after executing the body {\boldsymbol \alpha}
 Ans.
         the loop. It means that the statement in the loop will be executed at least once.
 35.
         Determine the output.
         int i=1;
         while (i<10)
         printf("%d",i++);
         1 2 3 4 5 6 7 8 9
 Ans.
         Convert the following loop into do while loop.
 36.
         int x;
         for (x=0;x<=10;x++)
         print f ("%d",x%2);
         { int x;
 Ans.
         x=0;
         do
         printf ("%d" ,x%2);
         X++;
         while (x<=10);
         Write the output of the following code:
  37.
                                                                             (2 Times)
         int 1,j=3;
         for (i=1; i<5; i++)
         printf("\n%d%d",i,j);
          13
  Ans.
          23
          33
          43
          53
```

```
convert the following code in do-while loop:
     for (i=1;i<5;i++)
38.
     printf("\n%d",i);
     int i=1;
Ans.
     do
     printf ("\n%d",i);
     1++
     while (i<5);
     What is meant by loop?
39.
     A statement or number of statements that are executed repeatedly is known as a
Ans.
     loop. They are used to access a sequence of values.
     Determine the output.
40.
     int x=0:
     for (x=1;x<15;x++)
     printf("%d\n",x*x);
     X++;
Ans.
     4
     25
     45.
     81
     121
     169
     225
41.
     Convert the following for loop into while loop *+//++
     int a=0;
     for (a=10;a>=1;a-)
     printf("%d",a);
     printf("\n");
     a=2:
42.
     Define sentinel values.
     A special value used to terminate a sentinel controlled loop is called sentinel value.
     This value is used in loops when the number of repetition is not predefined.
43.
     Find output from following code.
     int 1,j=0;
     for(i=1;i<5;++i)
     {printf("%d%d",I,j);}
     10203040.
     Convert while loop into do while loop.
     int i=1;
     While (i<15)
     {printf("n",i)
     i=i+1;}
     int i=1;
     do
     printf("n" 11
```

```
i=i+1;
       while (i<15);
       Convert the While Loop into do-while loop;
45.
       void main ()
       {int a=5;
        If (a\%2 == 0)
        prinf("Even");
        else
        printf("odd");
        odd
Ans.
46.
        Write the output of the following code
        void main()
        {int l;
        for(i=1;i<=3;i++)
        print f ("%d",i*i);
 Ans.
        1
        4
        9
 47.
        Convert the While Loop into do-while loop:
         int i=1:
         while (i<=15)
         {print f ("Hello");
         i++;
         }
 Ans.
         { int i=1;
         do
          {printf("Hello"
         i++;
         while (i<=15);
          Define infinite loop.
  48.
         A loop in which the ending condition never occurs is called infinite loop. It repeats
  Ans.
          Write the output of the following code.
  49.
          int m=5;
          while (m<10)
          printf("%d\n",m);
          m=m+2;
          }
          5
   Ans.
           7
           9
          Covert the following code into while loop.
   50.
           for (i=1;i<n;i++)
           f=f*1;
```

```
int i=1
    (printf("%d",f);
    j++;
    f=f*1;
    while (i<=n);
   What is counter controlled loop?
                                                                      (4 Times)
   The counter controlled loop depends on the value of a variable known as counter
    variable. The value of counter variable is incremented or decremented each time
   the body of loop executes. The loop terminates when value of counter variable
   reaches a particular value.
   Write output of the following code.
7.
   for (x=0;x<5;x++)
   printf("%d",x);
                         3
                                 4
          1
Ans.
   Define For-loop.
Ins: For loop executes one or more statements for a specified number of times. This
   loop is also called counter-controlled loop. It is the most flexible loop. That is why
   the most programmers use this loop in programs.
                                        2019
   Convert following while loop into for loop:
   int c = 0;
   while (c<5)
   printf ("%d\n", c);
   C++;
   for (int c = 0; c<5; c++)
      printf ("%d\n", c);
   Determine the output:
   for (a = 5; a<=5; a=a+5)
   printf ("%d", a);
   Convert this piece of code to "do-while" loop:
   for (i = 1; i<=10; i++)
   printf ("loop\n");
   int i= 1;
   do
   printf ("loop\n");
     i=i+1;
   While (i<=10);
   What is the output of following piece of code?
   for (k = 0; k>=0; k++)
   Printf ("%d\n", k);
   infinite loop
   Determine the output:
   Int n= 1;
   100
```

```
15. Class
       printf ("%d\ri", n);
       7++;
       while (n<=5);
Ans:
        Find the error:
59.
        void main ()
        far (int n=1; n<=5, n++)
        printf ("%d", n);
        i) The word "Far" in the third line must replace with "for"
        ii) The semicolon must write in third line after condition instead of comma
Ans:
        What will be the output of the following?
60.
        int c= 1;
        do {
        printf ("%d", c);
        while (c++ <=4);
         12345
 Ans:
        Convert the following code in "while" loop:
 61.
         for (int i = 3; i <= 9; i += 3)
         printf ("\t %d", i);
         int i = 3:
 Ans:
         while (i <= 9)
         printf ("\t %d", i);
         i=i+3:
         What will be the output of the following?
 62.
         char c = 'A':
         do
```

LONG QUESTIONS OF CHAPTER-12 IN ALL PUNJAB BOARDS 2011-2021

- What is nested loop? Give its syntax. Explain its working with an example. 1.
- Define "for" loop. Write its syntax, Draw flow chart and explain its working 2. with the help of example.
- 3. (3 Times)
- What is do-while loop? Explain its working with example. 4.

printf ("%c", c);

while (c<= 'l');

c=c+2;

ACEGI

Ans:

Write a program that display first five numbers and their sum using while loop. Write a program which prints natural numbers from 1 to 100. 5.

indicates the type of value returned by a function. The keyword return is used to How does a function make programming easier?

A lengthy program can be divided into small functions. It is easier to write small 8. functions instead of writing a long program. A programmer can focus the attention on a specific problem. It makes programming easier.

Describe built in function.

A type of function that is available as a part of language is known as built-in function or library function. These functions are ready made programs. These functions are stored in different header files. Built-in functions make

What is the life time of local variable? 10.

The time period for which a variable exists in the memory is known as the lifetime of variable. The lifetime of local variable starts when control enters the function in which it is declared. Local variable is automatically destroyed when control exists from the function in which locally variable is created.

List some benefits of using function.

Ans: i. Easier to modify.

ii. Easier to maintain & debug.

III. Reusability.

13.

Ans:

iv. Easier to code.

2016

12. Define the term Function?

A function is a named block of code that performs some actions. The statements written inside the function are executed when it is called by its name. Each function has unique name. Functions are the building blocks of C. They perform specific operations according to code written inside the function.

Differentiate between Function Definition and Function Declaration. (2 Times)

Function definition Function declaration A set of statements that explains What a function does is called Function declaration is a model of a function definition. function. It is also known as function A function definition can be written in prototype. It provides information to following places: compiler about the structure of the 1. Before main () function to be used in program. It consists of function name, function 2. After main () and types of 3. In a separate file type and number parameters. Syntax Return___type___function__name 14. (parameters);

(2 times)

Define function body. The set of statements which are executed inside the function is known as function body. The body. The body of function appears after function header. The statements are written in

Written in curly braces {}. Define local variable.

A variable declared inside a function is called a local variable. Local variables are called automatic variables. The syntax of declaring a local variable is as follows;

auto data typo id

(2 Times)

A set of statements that explains what a function does is called function definition 16.

A function definition can be written in following places: Ans: 3. In a separate file

2. After main () Before main ()

17.

The time period for which a variable exists in the memory is known as lifetime of the variable. Different types of the variables have different life times. Local Ans: variables have lifetime when control centers in the function and exist from that function. While global variable will remain in memory until program executes.

2017

Define local variables and their scope? 18.

The variables that are declared inside a function are known as local variables. The scope of these variables are inside the function in which they are declared. The Ans. only can be accessed in their respected function.

What is function header? 19.

The first line of a function, in which return type, function name and arguments an Ans. given is known as function header. i-e.

return_type funct_name (arguments)

Use of parameters in function. 20.

Parameters are the values that are passed to a function to process the function Ans. process those values and return result to main ().

Which type of functions are the part of language? 21.

Built-in or predefined functions are the part of languages. Ans.

i-e.

getch (); clrscr ();

Write down the scope of global variables? 22.

Global variables can be accessed or used all over the program. It means that these Ans. variables are globally accessed from any part of the programme. Normally, globa variables are declared before main function.

2018

Differentiate between actual and formal parameters. 23.

Ans:

Actual Parameters	Formal Parameter			
i. The parameters used in function call are called actual parameters. ii. These parameters are used to	i. The parameters in function declaration are called formal parameters.			
send values to the function.	ii. These parameters are used to receive values from the calling function.			

24. Why is function used in program?

(2 Times)

The real reason of using functions is to divide a program into different parts Ans: These parts of a program can be managed easily.

What is return statement? 25.

The return statement terminates the execution of a function and returns control Ans: to the calling function. A return statement can also return a value to the calling function.

2019 What is meant by scope of variable?

The area where a variable can be accessed is known as scope of variable. Variable scope refers to the accessibility of a variable in a given program or function. It is very useful to be able to limit a variable's scope to a single function.

Give an example of user defined and built-in function?

The examples of user defined functions are SUM () and COMPARE (). The examples of built-in functions are scanf () and getch ().

Define global variable?

A variable declared outside any function is known as global variable. Global Variables can be used by all functions in the program. The values of these variables are shared among different functions. If one function changes the value of a global Variable this change is also available to other functions.

```
Convert the following code into do while loop.
     int n=1;
     while (n<=7)
     printf("*n");
     n++;
    (int n=1;
Ans:
     do
     printf("*/n"),
     11++;
     While (n<=7);
    Write errors from the following code.
27.
     #include
     void main ()
    float y=3.14
    if(Y==3.14)
     prin f ("%d", Y)
Ans: I.
           # include is wrong. The correct structure is #include<stdio.h>
    111.
           Semicolon is missing after float y =3.14
    Iv.
           There is semicolon missing after printf ("%d",y)
           Write y instead of Y.
    Define user defined function.
                                                                           (3 Times)
```

A type of function written by the programmer is known as user defined function. It has a unique name, these functions are written according to the user requirements.

OBJECTIVES (MCQ'S) OF CHAPTER-14 IN ALL PUNJAB BOARDS 2011-2021

1. A binary stream is sequence of: (A) bits (B)bytes 2. Which of the following is used to	(C)kilobytes	(D)giga bytes
2. Which of the following is used to	write a string to a file?	(4 times)
2. Which of the following is used to (A) puts () (B) put c () 3. Which of the following function	(C) f puts ()	(D) f gets ()
2. Attrict of the following innered	119 10 40 4	/2 Time and
(A) fputc () (B)putc ()	(C)fputs ()	(D) fgets ()
4. Venich of the following character	is used to main the	
(A) \(\(\text{(A)} \) \(\text{(B)} \) \(\text{(B)} \)	(C) /a	ועו ועו
Which mode opens only an existing	ng file for both reading	and writing? (4 time
(A) "W" (B) "W++"	(C) "r+"	(D) a+
6. In file opening mode.	data can only be read	from an existing file:
(A) W (B) W+	(C) r+	(D) "r"
/. In text file data is stored in:		
(A) ASCII Code (B) Binary code	(C) octal code	(D) text code
8. are file handling fu	nctions:	
(A) f print f (B) f scan f	(C) both a and b	(D) none of these
9. A file is stored in		
(A) RAM (B) Hard disk	(C) ROM	(D) Cache
10. An array script should be:		A transfer of
(A) int (B) float	(C) double	(D) An array
and the second of the second o		
	2017	
Cala	anguage	
11. A sequence of characters from an	Input device to communi	
10/ HIDUL SHEAM HILL PAXT STRARM	(c) Dinami atuania	/ 11 =
12. A can store text only	(c) billary stream	(a) Out put
12. A can store text only. (a) binary file (b) text file	(c) eve file	(14times)
	(c) exe me	(d) object file
	2018	
13. In the Statement FILE *FP, the * re	proconts to	
(a) pointer (b) variable		(2 times)
14. Global variables are created in	(c) multiplication	(d) parameter
(a) RAM (b) ROM	(a) Hand Dist	The second second
15. A built-in function:	(c) Hard Disk	(d) Cache
(a) cannot be redefined (b) can be redefined	and (a) multi-	
- The topen() function uses	The state of the s	(d) end while
(a) 1 (b) 4	(c) 3	7.0
(a) Which mode opens only an existing (b) 'w'	file for both	(d) 2
(a) "r+" (b) 'w'	(c) "w+"	and writing?
		(d) "a"
The state of the s	2019	e sac a soit a,
(a) On successfully closing a file in C, t	he foloso / \	
		A
19. On Successfully closing a file the f	(c) 1 (ONE)	d) File pointer
(a) 0 (Zero) (b) NULL		
	(d)	FILE Pointer

1	2	3	4	TIA21	WERS				
В	С	В	A		6	7	8	9	10
11	12	13	14	15	D	A	С	В	A
В	В	A	A	15	16	17	18	19	
				I A	A	A	Α	A	

SHORT QUESTIONS OF CHAPTER-14 **IN ALL PUNJAB BOARDS 2011-2021**

Define EOF marker. OR How is end of Text file indicated? 1. A text file is a named collection of characters saved in secondary storage such as Ans:

disk. The text file has no fixed size. A special end-of-file character is used to indicate the end of a text file. It is placed after the last character in the file. It is denoted by EOF in C language.

What is Text File?

A type of file that stores data as readable and printable character is called text Ans: file. A source program of C language is an example of text file. The user can easily view and read the contents of a text file. It can also be printed to get a hard copy.

Compare Binary and text stream. 3. (2 times)

Ans:

Binary Stream	
	Text Stream
A binary stream is a sequence of bytes	A text stream is a sequence of
with a one-to-one correspondence to	characters. In a text stream, certain
those on the external device (i.e., no	character translation may occur (e.g., newline may be converted to
translation occurs). The number of	a carriage return/line-feed nair)
bytes written or read is the same as the	This means that there may not be a
number on the external device. Binary	one-to-one relationship between the characters written and those in
stream can be used to transfer any type	the external device.
of data.	

4. Define a pointer.

Ans: A type of variable that is used to store the memory address of a memory cell is known as pointer. It normally stores the memory address of a variable or object, The data type of a pointer must be the same as data type of the variable whose memory address is stored in it. 5.

What is binary stream? (2 times)

Ans: A binary stream is a sequence of bytes. The translation is not performed in binary stream. It exists with one-to-one correspondence to the external devices. It means that the number of bytes written or read is the same as the number of bytes on the external device.

2016

Which access method can access the data directly? (2 times) Random access method is used to access any data directly without accessing the

preceding data. It does not read or write data in sequence. It is very fast access method as compared to sequential search method.

(2 times) Which function is used to close a file in C language? Ans: A file is closed by using function fclose(). The syntax of this function is

fclose(file_pointer). 8.

Write the use of New Line Marker. the ENTER key is used to move the cursor to the next line in a text editor such as notepad. A new line character is placed at the end of each line when the user presses ENTER key. The new line is denoted by \n in C.

9.

Data file can be used to provide the input to a program. It can also be used to store the output of the program permanently. If a program will get input from Ans: file in place of keyboard, it will get the same data each time it is executed. There will be less chance of data loss.

10.

A text stream is a sequence of characters. A certain character translation may occur in a text stream. For example a new line may be converted to a carriage Ans: return / line feed pair.

2017

Describe the purpose of file handling? 11.

A file can be used to provide input to a program. It can also be used to store the output of the program permanently. If the input is given by file so there is less Ans. chances of errors. (2 times)

Why it is important to close a file? 12.

When the file is closed, the file pointer is also destroyed in the memory. The file becomes inaccessible. Closing file is automatic process, if file is not closed, Ans. operating system will automatically close it.

List any two ways to write text data? 13.

Data can be written character by character. i-e. Ans. "fputc" function is used for this.

Data can be written in file as a string. i-e. II) "fputs" is used for this purpose.

List two types of streams used in files? 14.

Text stream Ans.

Binary stream. ii)

2018

Define a stream. 15.

(2 times)

A logical interface to a file is known as stream. A stream is associated with a file Ans: using an open operation. The stream is disassociated from a file using a close operation.

List three names of functions used for character input. 16.

scanf() Ans:

getch () 11.

getche()

How a file opened in C? 17.

A file pointer is declared and associated with the file to be opened. A function Ans: fopen is used to open a file. Syntax:

File_pointer =fopen (file_name, mode);

What is a file pointer? 18.

File pointer is a pointer that refers to a file on the secondary storage. It is a Ans: variable of type FILE that is defined in stdio.h. It is used to access and manipulate a data file. The file pointer is associated with a file after declaration.

How is a file closed? 19.

An open file is closed by using the fclose() function. The syntax of this function is Ans: fclose (file_pointer)

Where file_pointer is the file pointer that refers to the file to be closed.

2019

20. What is meant by fgets function?

Data can be read from text file as string at a time by using fgets function. Its syntax Ans: is as follows:

fgets (string, File_Pointer);